# **SERVICE MANUAL**

AEP Model

Chassis No. SCC-C16A-A



FX CHASSIS

Note: The service manual for RM-681 and SS-XT291 have been issued separately

MODELS OF THE SAME SERIES			
<v-fx29td< th=""><th></th></v-fx29td<>			

# **SPECIFICATIONS**

Television system Color system Channel coverage

B/G/H, I, L

PAL, SECAM, NTSC 4.43, NTSC 3.58

See "Receivable channels and channel displays"

Γ	Italy	PAL B/G	AEP P	AL B/G	Cable	TV (2)	French	SECAM-L	PAL-	I Ireland	PAL-	LUK
h	Α	C13	E2	C02	S01	€ 42	2	C02	Α	C01	21	C21
1		1										
			12	C12	: S05	: ∌346	10	c10				
١			21	C21	M1	€001	21	C21				
			69	C69	міо	: ∌10	69	C69				
	H	C20		TV (1)	U1	<b>∌</b> 11		Cable TV				
-	H1	C11	S1	<b>€</b> 001			B	<b>€</b> 02 :	н	C08		•
	H2	C12	41	: ≨)41	U10	: ≨)20	à	<b>€</b> 17	J	C09	69	C69

Picture tube

Trinitron tube

Approx. 72.4cm (29 inches)

Approx. 68cm picture mesured diagnally)

110° degree deflection

Input

21-pin connector: CENELEC Standard including RGB input

21-pin connector: S VIDEO

Y: 1Vp-p 3dB 75

C: 0.3Vp-p 3dB 75

- Continued on page 2 -



TRINITRON® COLOR TV SONY

Outputs

Headphone jack: stereo minijack

External speaker terminals: 2-pin DIN

Audio output jacks: phono jack...Output level dependent

upon TV settings 20W+20W (music power)

Sound output

Power consumption Dimensions

180Wh

Approx.  $666 \times 532 \times 526.5$ mm (w/h/d)

Weight

Approx. 52kg

Supplied accessories

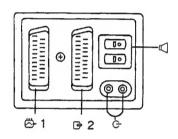
RM-681 Remmote Commmander (1) IEC designation R6 batteries (2)

SS-XT291 Detachable Speakers (1 set)

Speaker cord with plug (2)

Design and specifications are subject to change without notice.

# 21 Pin Connector ( 1 0 2)



Pin No	1	2	Signal	Signal level		
1	0	0	Audio output B (right)			
2	0	0	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms*		
3	0	0	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*		
4	0	0	Ground (audio)			
5	0	0	Ground (blue)			
6	0	0	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms*		
7	0	•	Blue input	0.7V±3dB, 75ohms, positive		
8	0 0		Function select (AV control)	High state (9.5-12 V): Part mode Low state (0-2 V): TV mode Input impedance: More than 10kohms Input capacitance: Less than 2 nF		
9	0	0	Ground (green)			
10	0	0	Open			
11	0	•	Green	Green signal : 0.7V±3dB, 75ohms, positve		
12	0	0	Open			
13	0	0	Ground (red)			
14	0	0	Ground (blanking)			
15	0	_	Red input	0.7V±3dB, 75ohms, positive		
13	-	0	(S signal) croma input	0.3V±3dB, 75ohms, positive		
16	0	•	Blanking input (Ys signal)	High state (1-3 V) Low state (0-0.4 V) Input impedance: 75ohmes		
17	0	0	Ground (video output)			
18	0	0	Ground (video input)			
19	0	O Video output		1V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)		
20	0	-	Video input	1 V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)		
20	-	0	Video input/Y (S signal)	1 V±3dB, 75ohms, positive Sync: 0.3V (-3, +10dB)		
21	0	0	Common ground (plug, st	nield)		

O connected

unconnected (open)

\* at 20 Hz-2C kHz

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#### SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK 

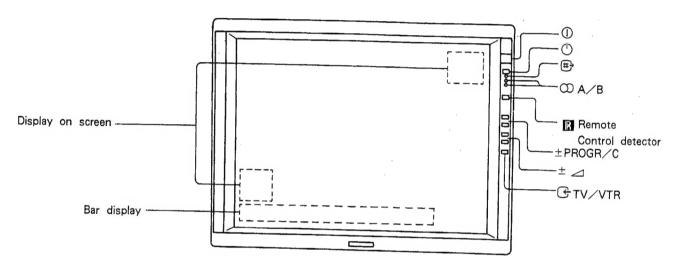
ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

# SECTION 1 GENERAL

#### 1-1. FEATURES

- New Microblack Trinitron picture tube for a high resolution and high contrast picture.
- S VIDEO INPUT connector through which Y (luminance) and C (chrominance) signals can be input separately. This reduces interference between the signals and ensures excellent picture quality.
- Multi system PAL (B, G, H, I) SECAM (L) can be received.
   And NTSC4.43 and 3.58 with video input can be also received.
- Flicker free function produces clear picture.
- Noise Reduction function
- Frequency synthesiser tuning system
- Detachable speakers
- 21-pin connectors allow direct hook-up to up to two VCRs and/or other equipment.
- Teletext adaptor is built—in.

#### 1-2. FUNCTION OF CONTROLS



#### On the set

# On-screen display

Indicates program numbers, input modes;  $\bigcirc$  1,  $\bigcirc$ ,  $\bigcirc$  2 and  $\bigcirc$  and picture and sound adjustment items. Press  $\bigcirc$  on the Rremote Commander to display them on the screen.

# Bar display

Indicates the level of the user controls when they are adjusted.

# 1 Power switch

To cut off the mains electricity supply, press this switch. Ensure correct operation by pressing this switch fully.

standby indicator

Noise reduction indicator

Stereo A/B indicator

# Remote control detector

Point the Remote Commander towards this detector.

# PROGR +/- buttons

Use to scan the available channels. And to return to TV mode from standby mode when Remote Commander is not available.

Volume +/- buttons

# TV/VIDEO button

Press to select the TV or one of the other input modes.

- ∀1 Video signal through ☼ 1 (21-pin connector) can
  be seen on the screen.
- RGB signal through \$\operation 1\$ (21-pin connector) can be seen on the screen. Sharpness is fixed in this case.
- G

  ✓ 2 Video signal through 

  ✓ 2 (21 pin connector) can be seen on the screen.
- S video signal through 32 (21-pin connector) can be seen on the screen. When you see S video, make sure that the set is in the S video mode.

# S video input

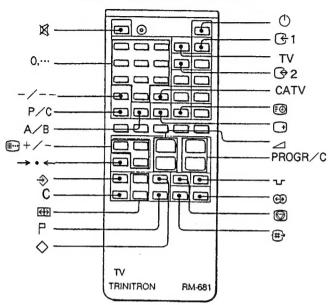
Video signals may be separated into Y (luminance) and C (chrominance) signals.

Usually these two signals are combined in a VTR and output as one signal, and supplied to a TV. Separation of the Y and C signals prevent them from interfering with one another, thereby improving picture quality. This set is equipped with an S video input jack through which these separated signals can be input directly.

Connect the S video output jack on the VTR to the S video input on this set.

Headphones jack (stereo minijack)

#### (KV-FX29TA, FX29TD RM-681)



#### On the Remote Commander

# M mute button

Use to mute the sound.

#### 0,..., 9, buttons

Use to select a program number.

# -/-- button

Use to select a program number over 9. To select 23, press 2, then 2 and 3.

#### CATV button

Use to select CATV channels.

#### P/C (program/channel) button

Use to select the channel mode or to return to the program mode.

#### A/B bilingual button

Press to select channel A (usually the local language) or B (usually the original language) of a bilingual program. Both indicators light up if a stereo program is received.

## → On-screen display button

Press to make the display appear on the screen. And again to make it disappear.

# ( standby button

Press to turn the set into the standby mode. Use this facility to turn off the set for short periods of time. To return to TV mode, press TV or the program number on the Remote Commander; there will be a slight delay before the picture is restored.

# TV button

Press to change to TV mode from standby, video input or teletext modes.

#### €1 input button

Press to view the input picture coming in through the 🖰 1 connector.

Each time this button is pressed, C1 and C (RGB) will appear alternately.

Press TV or the program number to return to the TV mode.

#### ②2 input button

Press to view the input picture coming in through the 2 connector. 2 and 7 (Y/C) will appear alternately. Press TV or the program number to return to the TV mode.

#### Time button

In TV mode, press to display the preset time on the screen, and again to make it disappear. This function is available only when the teletext service is broadcast in the selected channel.

+/-, picture and sound adjustment buttons.

There are two ways to use these buttons.

#### 1. When watching a TV program

Press repeatedly until the on-screen display of the required item appears, i. e. picture, color, brightness, in hue, sharpness, bass, treble or balance.

Adjust by pressing + or -.

#### When presetting TV channels and programs For details please see "To preset channels".

#### → · ← reset button

Press to reset the user controls to the factory-set levels.

# → Preset button

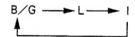
Used when presetting channels.

# C clear button

Used when presetting a program to be skipped.

# P TV system switch button

Press to select the TV system.



#### store button

Used when presetting channels.

∠ Volume +/- buttons

## PROGR/C +/- buttons

Used to scan the available programs or channels.

# e space sound button

Press to obtain special acoustic effects. Press again to restore normal sound. (The indicator on the screen is ...).

# moise reduction button

Press to reduce noise on the picture. The indicator on the set lights up.

# ு loudness button

Press to enphasize high and low tones. Press again to restore the normal sound. (The indicator on the screen is  $\dot{x}$ .)

#### freeze button

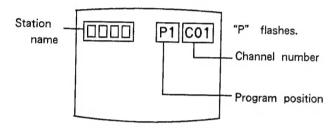
Press to view a still picture. Press again to restore normal picture.

Note Buttons not referred to in this manual do not operate.

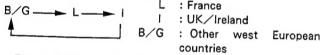
# 1-3. TO PRESET CHANNELS

Use the buttons on the Remote Commander.

- 1. Press (preset).
- 2. Press a number button on the Remote Commander to select a desired program position.

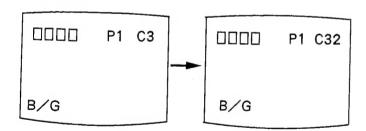


Press P to select the appropriate TV system.
 TV system display changes sequentialy.



4. Press P/C. C starts flashing, then press the desired channel number e. g.

To tune in channel number 32, press 3 and then 2. (To tune in channel number 4, press 0 and then 4.) The display will be as follows.



If you want to name the station,

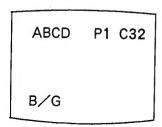
Press . The first column of the station name flashes.

Press + /- to select a desired character.

Press again to make the second column flash, and select a desired character.

Thus four characters can be displayed as desired.

To make the column blank, leave .



When the last column flashes, press . P starts flashing.

To tune in a higher or lower station, press  $\bigoplus +/-$ . Channel searching starts. Channel number increases or decreases until a TV station is tuned in.

Press 
 to memorize all the station data displayed on the screen.

Then P starts blinking.

If you want to preset more channels, repeat steps 2 to 5.

6. Press ♦.

To skip a position, press C and  $\diamondsuit$  in the preset mode. The position is skipped when program +/- button is presed.

To return to TV mode, press -.

# 1-4. HOW TO SELECT THE DESIRED CHANNEL

There are two ways to select a channel.

# To select by appointing a program number

For direct program tuning for the programs under 10, press 0, 1, 2, 3,...9.

For direct program tuning for the program over 9, press and two number buttons. (e. g. 2 3 and then 2)

For sequential program up/down tuning, press PROGR/C+/-.

# To select by appointing a channel position

Press P/C to change into the channel tuning mode. "C " appears on the screen.

For direct channel tuning for the normal channel, press two number buttons sequentially.

(e. g. for channel 2, press 0 and 2)

#### Note

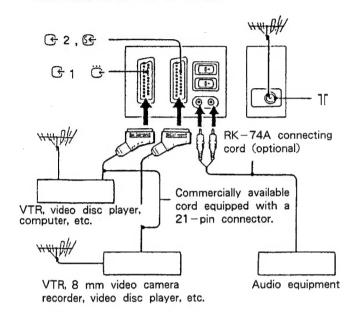
When pressing two number buttons, the second button should be pressed within 5 seconds, otherwise the operation will be cancelled and display will return to the original one.

For sequential channel up/down tuning, press PROGR/C + /-.

#### 1-5. CONNECTING OTHER EQUIPMENT

There are two ways to connect a Video Tape Recorder (VTR).

Connectors on the rear of the set



\*Connect S VIDEO output of the VTR, etc. here.

#### Notes

- Move the VTR away from the TV if the picture or the sound is distored.
- Only one of the VTRs should be turned on at one time.
- It is also possible to connect a VTR using the I socket.
- Computers cannot be connected to 🕒 2.

#### S video input

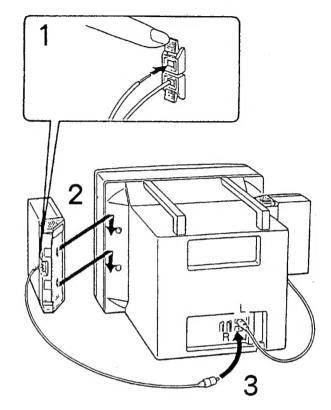
Video signals may be separated into Y (luminance) and C (chrominance) signals. Usually these two signals are combined in a VTR and output as one signal, and supplied to a TV. Separation of the Y and C signals prevent them from interfering with one another, thereby improving picture quality.

This set is equipped with an S video input jack through which these separated signals can be input directly.

Connect the S video output jack on the VTR to the S video input on this set.

#### 1-6. HOW TO ATTACH THE SPEAKERS

- Connect the black cord to the black button on the speaker.
  - Connect the white cord to the red button hole.
- 2. Attach the right and left speakers to the set.
- 3. Connect the left speaker cord to  $\square$  L/G/S terminal and the right speaker cord to  $\square$  R/D/D terminal on the rear of the set.



#### 1-7. VIEWING TELETEXT

To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

#### Operation

- Select the TV channel for the desired teletext service.
  - When the signal is weak, teletext errors may often occur.
- Press ■/♥ (TEXT/MIX) to display the teletext service.
- Key in the three digits of the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the Remote Commander.

The teletext service can be displayed directly from the standby mode by pressing  $\bigcirc$   $\bigcirc$ .

To receive the teletext service of a different TV channel.

- 1. Press TV to return to the TV mode.
- 2. Select the desired TV channel.
- 3. Press / ②.

# To request the index page

Press (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.

- To access the next or preceding page.

  Press (PAGE+) or (PAGE-).
- To superimpose the teletext display on the picture

  Press (F) twice from TV mode.

  Press (F) again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed.

Press (TEXT CL). This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page from being updated/changed.

Press (HOLD). The HOLD symbol appears on the screen.

To resume normal teletext reception, press (7).

To enlarge the teletext display

Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display. And press again to return to the normal display.

To reveal concealed information such as answers to a quiz Press (REVEAL).

Press again to conceal the answers.

To watch the TV program while waiting for a requeated page to be displayed

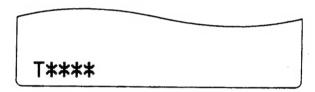
- 1. Request the new page.
- 2. Press to watch the TV program. The requested page number and other data appears at the top of the screen while the page number is being searched for. When the requested page has been captured, the page number on the screen and the other data disappears.



To have a requested page displayed at a pre-determined time

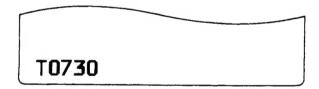
- 1. Request a time coded page (e. g. alarm page).
- 2. Press (TP ON).

"T\*\*\*\*" will appear at the bottom of the screen.



3. Enter your request time with the number buttons, using four digits.

For example, 0730.



To watch the TV program until the requested time, press

At the requested time, the page number will be displayed at the bottom of the screen.

To view this page, press 🖹 📝.

To cancel the request, first ensure that the teletext page is displayed, then press (TP OFF).

# SECTION 2 DISASSEMBLY

2 one screw

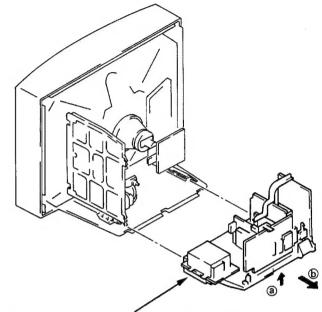
(BVTP4×16)

#### 2-1. REAR COVER REMOVAL

Rear cover

# ①two screws (P4×16)

#### 2-2. CHASSIS ASSY REMOVAL

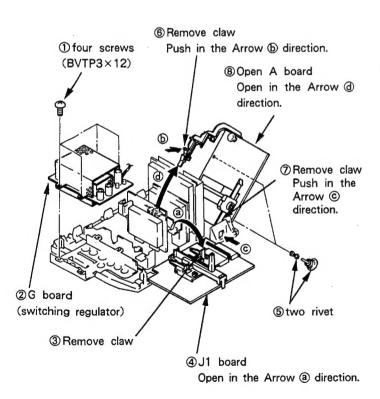


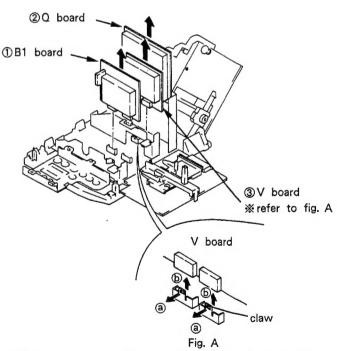
Lift and pull out the rear part of the main chassis toward the rear.

# 2-3. G BOARD (SWITCHING REGULATOR) REMOVAL AND J1, A BOARDS OPENING

3 four screws (BVTP4×16)

# 2-4. B1, Q AND V BOARDS REMOVAL

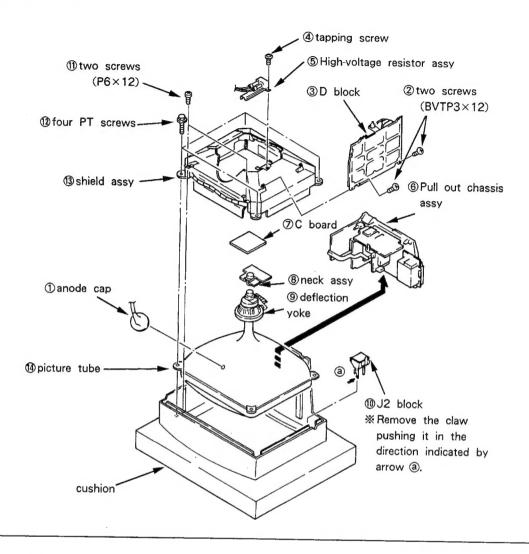




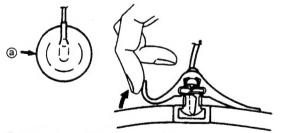
 Pull out V board after removing the two claws on the connector holding V board in place in the direction indicated by arrow ③.

\*The operation must be performed after removal of board B1.

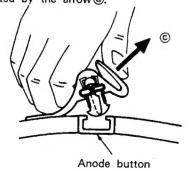
#### 2-5. PICTURE TUBE REMOVAL

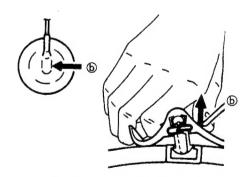


# Removing Procedures



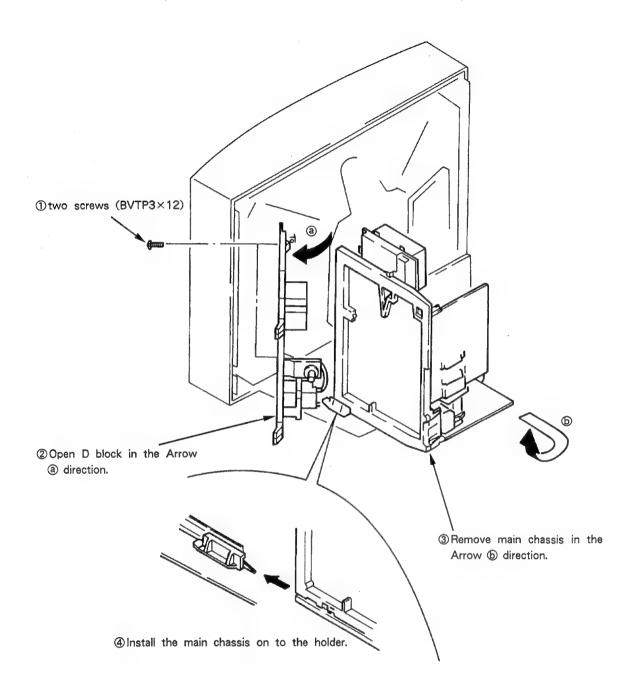
① Turn up one side of the rubber cap in the direction indicated by the arrow@.





- ② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow ...
- When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

# 2-6. SERVICE POSITION



# SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted,

The control and switch below should be set as follows unless otherwise noted:

◆ CONTRAST control ······ 80% (or Normal by Commander)

BRIGHTNESS control ··· 50%

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color Bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

#### Preparation

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

# 3-1. BEAM LANDING

- Input a raster signal with the pattern generator.
   CONTRAST BRIGHTNESS normal
- Turn the raster signal of the pattern generator to red.
- 3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3-1-3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red.(Fig. 3-1)
- 5. Switch over the raster signal to blue and green and confirm the condition.
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corners is not right, adjust by using the magnet. (Fig. 3 4)

Fig. 3-2

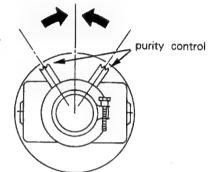


Fig.3-3

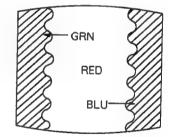


Fig.3-4

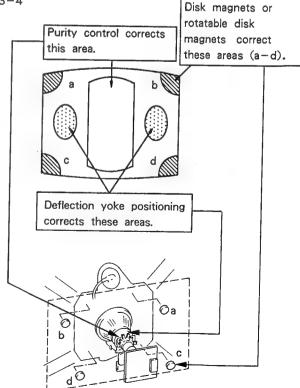
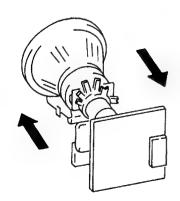


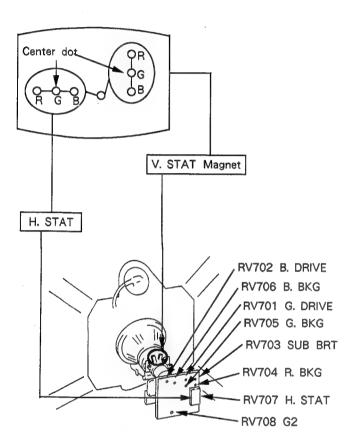
Fig.3-1



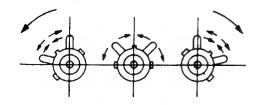
#### 3-2. CONVERGENCE

#### Preparation:

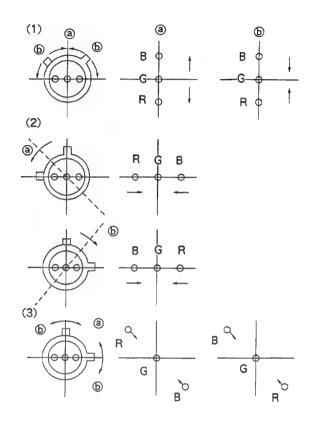
- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments,
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



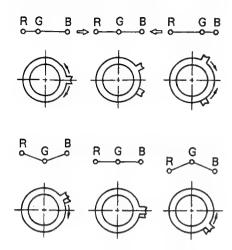
- Adjust H. STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- 2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)
- 3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



4. When the V. STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

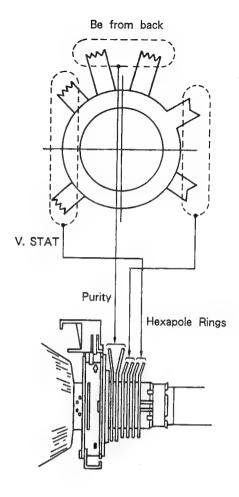


# Operation of Hexapole Ringed Magnet



The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.

Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

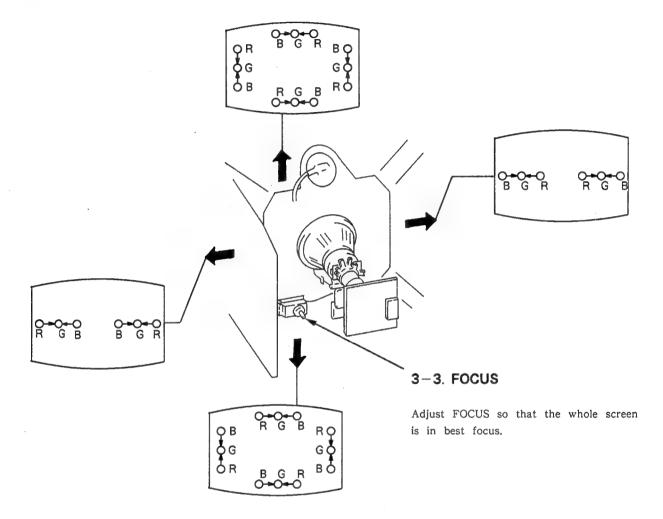


#### (2) Dynamic Convergence Adjustment

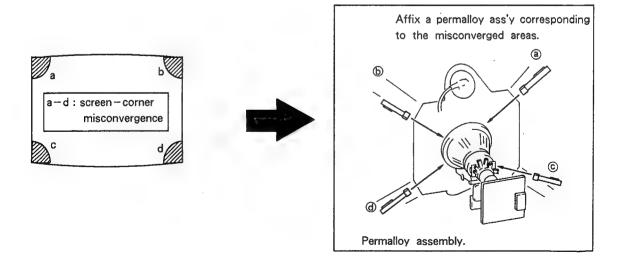
#### Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment..
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



# (3) Screen - corner Convergence



# 3-4. WHITE BALANCE

(Screen (G2) Setting)

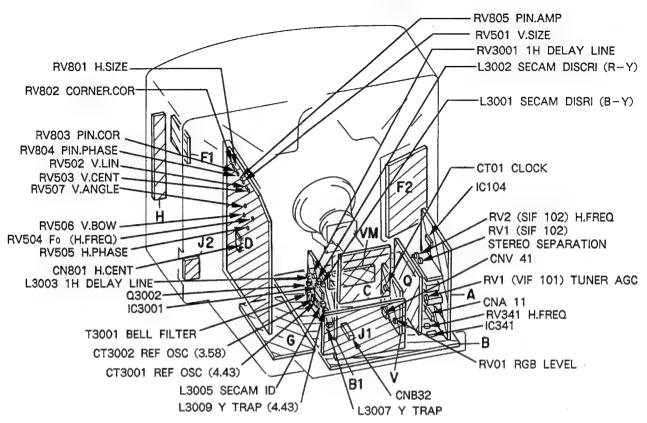
- 1. Input dot signals.
- 2. Set the picture BRIGHTNESS control to the minimum level,
- 3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
- While watching the picture, adjust the G2 volume (RV708) immediately before the fly-back line disappears,

#### (White Balance Adjustment)

- 1. Input all-white signals.
- 2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
- 3. Adjust the highlight W/B balance by turning the RV702 (B. DRIVE) and RV701 (G DRIVE). Also, adjust the cut—off W/B by turning RV706 (B-BKG), RV705 (G-BKG) and RV704 (R-BKG). Note that these two balances must be adjusted during tracking.

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

# SECTION 4 CIRCUIT ADJUSTMENTS



#### 4-1. A BOARD ADJUSTMENTS

## TUNER AGC Adjustment VIF101 (IFG389FS) RV1

- 1. Tune in an off-air signal.
- Adjust RV1 so that snow-noise and crossmodulation just disappear from the picture.

STEREO SEPARATION Adjustment SIF102 (IFG5,5S) RV1

- 1. Input stereo signal (L-CH 1kHz, R-CH 400Hz)
- 2. Check the stereo indicator.
- Connect an oscilloscope to the pin ① (L) of CNA11 through band pass filter of 1kHz.
- Adjust RV1 so that 1kHz voltage goes down to the minimum.

# H. FREQ. Adjustment SIF102 (IFG5.5S) RV2

- 1. Input PAL COLOR pattern.
- 2. Short circuit between pin @ of IC4 (TDA2595) and ground,
- 3. Connect a frequency counter to the pin (6) through a probe of 10:1.
- 4. Adjust RV2 so that H. frequency becomes 15.625±50Hz. 15.625±50Hz.

#### 4-2. B BOARD ADJUSTMENTS

## H. FREQ Adjustment (RV341)

- 1. Input a PAL COLOR BAR pattern.
- 2. Connect pin 12 of IC341 to the ground.
- 3. Connect the frequency counter to pin (6) using the 10:1 ratio probe.
- 4. Adjust RV341 so that frequency H becomes  $15.625\pm50$ Hz.

#### 4-3. B1 BOARD ADJUSTMENTS

# REF OSC Adjustment (CT3001, 4,43 MHz)

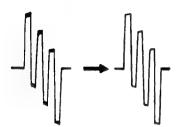
- 1. Input a PAL COLOR BAR pattern.
- Short circuit between pin ① of IC3001 and ground.
- 3. Adjust CT3001 to obtain color synchronization.
- 4. Remove the jumper wire from IC3001.

#### REF OSC Adjustment (CT3002, 3.58 MHz)

- 1. Input NTSC3.58 COLOR BAR signal.
- 2. Short-circuit pin @ of IC3001 and the ground.
- 3. Adjust CT3002 to obtain color synchronization.
- 4. Remove the jumper of IC3001.

#### 1H DELAY LINE Adjustment (L3003, RV3001)

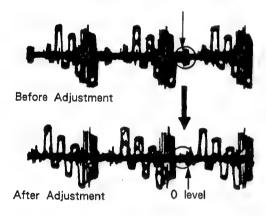
- 1. Input a PAL COLOR BAR pattern.
- Connect the oscilloscope to pin (3) (B-Y) of IC3001 and observe the waveform of the H block on the oscilloscope.
- Adjust L3003 to minimize the double waveform outline,



Before Adjustment After Adjustment

- 4. Input a PAL TEST COLOR BAR pattern.
- Rotate the RV3001 and adjust till the ANT PAL part of the waveform matches the 0 level.

This part matches the 0 level.



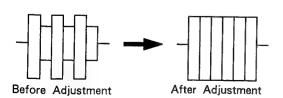
6. L3003 and RV3001 affect each other, so repeat till the conditions of both are met.

# SECAM ID Adjustment (L3005)

- 1. Input SECAM COLOR BAR signal.
- Adjust L3005 so that the indicater goes up to the maximum.

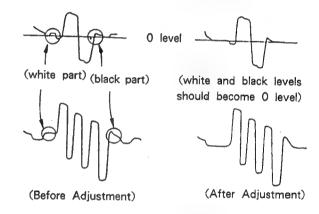
# BELL FILTER Adjustment (T3001)

- 1. Input SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope to the Q3002 emitter.
- 3. Adjust T3001 so that the waveform becomes flat.



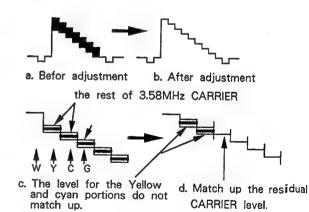
SECAM DISCRI Adjustment (L3002 (R-Y), L3001 (B-Y))

- 1. Input SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope at pin ① of IC3001,
- 3. Adjust L3002 (R-Y) so that white and black part of the waveform of pin ① becomes 0 level.
- 4. Connect an oscilloscope at pin 3 of IC3001.
- Adjust L3001 (B-Y) so that white and black part of the waveform of pin 3 becomes 0 level,



# Y TRAP (L3007 4.25 MHz, L3009 4.43 MHz)

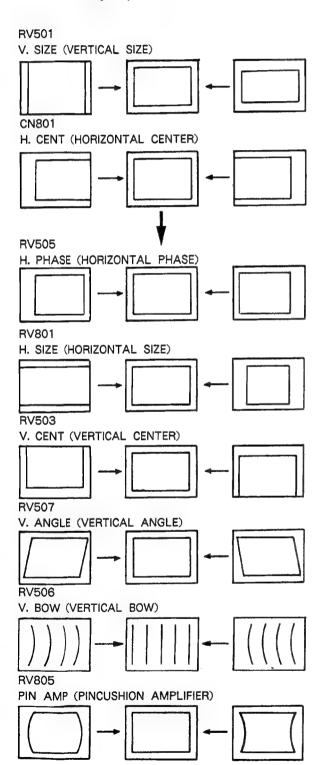
- 1. Input PAL COLOR BAR pattern.
- Connect the oscilloscope to the Y-OUT terminal of CNB32 pin<sup>®</sup> to display the waveform for the H portion.
- 3. Adjust L3009 to minimize the CARRIER level.
- 4. Convert the input signal into NTSC COLOR BAR pattern.
- Cancel the forced PAL MODE and set the forced NTSC MODE,
- Adjust L3007 while observing if the signal portions for the CARRIER level for DR (3.58 MHz).

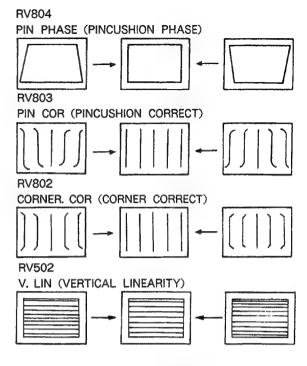


#### 4-4. D BOARD ADJUSTMENTS

# H. FREQ Adjustment (RV504)

- 1. Input PAL COLOR BAR.
- Connect 100/16 chemical condenser between pin
   of IC501 and the GND.
- 3. Connect the frequency counter probe to C824.
- 4. Adjust RV504 so that  $\pm 31.25$  Hz is obtained for 2H the frequency.





#### 4-5, Q BOARD ADJUSTMENT

#### H. FREQ Adjustment

- I. Input PAL COLOR BAR pattern,
- 2. Connect pin (4) of CNQ44 (H SYNC) to the GND.
- 3. Turn the core of L1312 to adjust the position where the screen flows slowly.



# 4-6. V BOARD ADJUSTMENTS

#### Clock Adjustment (CT01)

- 1. Disconnect the pins 2 and 3 of CNV01,
- 2. Set up the TELE TEXT mode.
- 3. Adjust CT01 to stop pictures from scrolling.

# RGB Level Adjustment (RV01)

- 1. Set PICTURE to maximum.
- Adjust RV01 till the RGB output becomes maximum.

# 4-7. SUB ADJUSTMENTS

# SUB BRIGHTNESS Adjustment

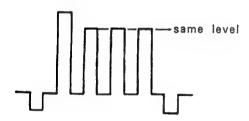
- 1. Receive and display a TEST COLOR BAR pattern.
- 2. Push  $\rightarrow \cdot \leftarrow$  on the remote commander to invoke the normal state.
- 3. Reduce the ① CONTRAST to the minimum level.
- Adjust the SUB BRIGHTNESS RV703 until the 0 IRE of the gray scale becomes completely cut off, and the 20 IRE becomes barely luminous.

Where no TEST COLOR BAR pattern is available.

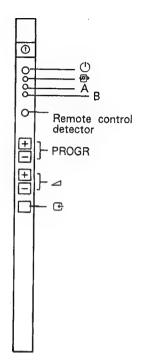
- 1. Display a COLOR BAR pattern.
- 2. Push→•←on the remote commander to invoke the normal state,
- 3. Set the PICTURE and COLOR to minimum.
- 20 IRE is close to blue, so adjust the SUB BRIGHTNESS RV703 till blue is faintly luminous.

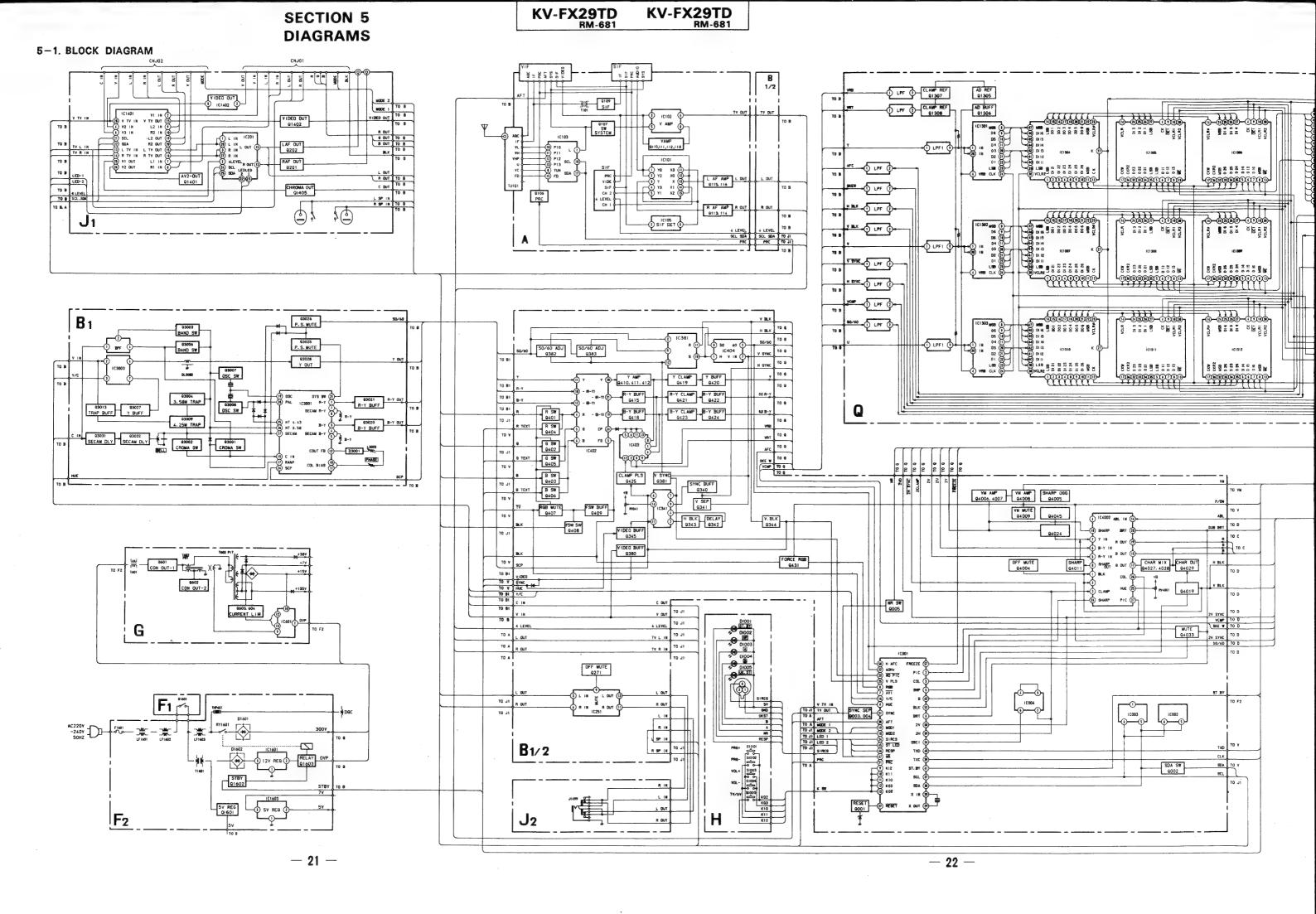
# SUB COLOR Adjustment

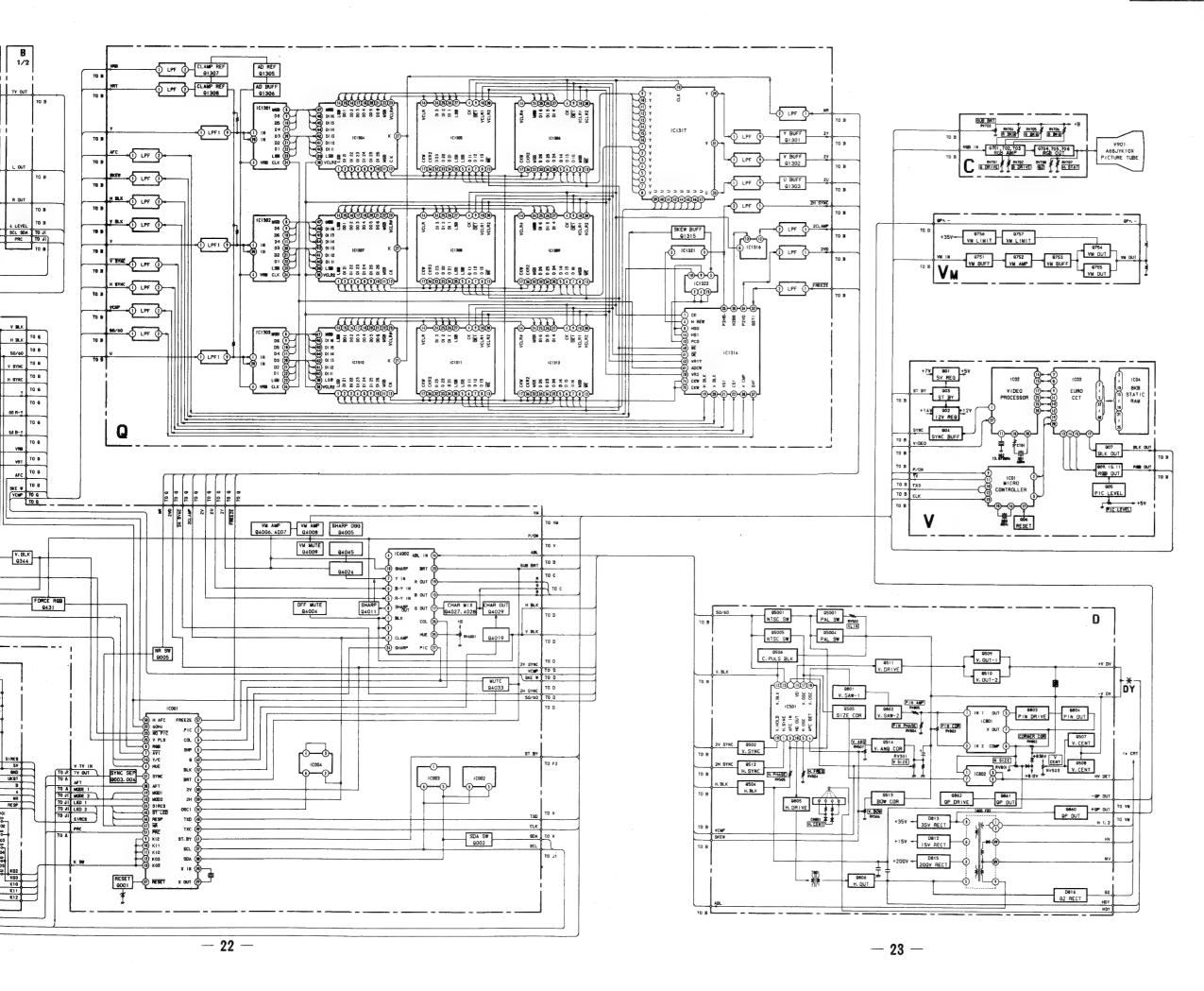
- 1. Display a COLOR BAR pattern.
- 2. Push → ← on the remote commander to invoke the normal state,
- 3. Turn off the power supply.
- 4. Turn on the power supply while pushing the VOL
   + and VOL
   buttons on the unit,
- 5. Adjust the COLOR control until the B out (pin @ of CNC33 connector on C board) waveform becomes as shown below.

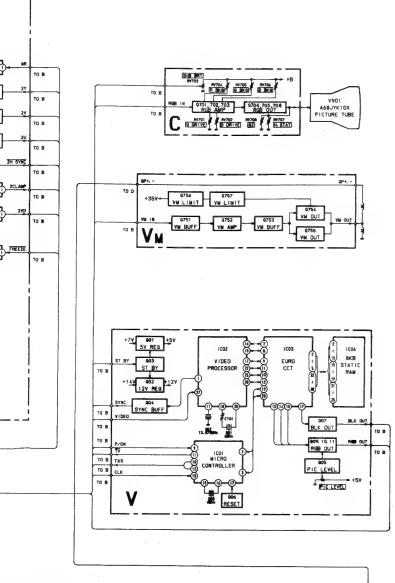


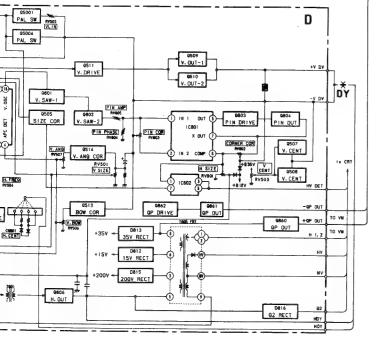
- 6. Push the STORE button on the remote commander. (SUB mode is cleared.)
- \* When Step 4 is executed correctly, SUB (SUB mode) is displayed at the upper right of the display. As S (SUB mode) is displayed only for 30 seconds, perform the adjustment within 30 seconds, or repeat from Step 4.



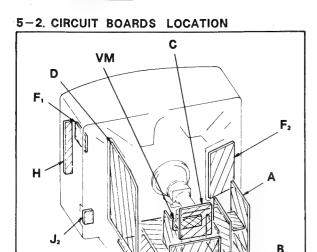








KV-FX29TD RM-681 **KV-FX29TD** 



5-3. SCHEMATIC DIAGRAM (1)

• All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.

• Indication of resistance, which does not have one for rating electrical power is, as follows.

Pitch : 5mm Rating electrical power: 1/4W

- All resistors are in ohms.
- : nonflammable resistor. • tusible resistor.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B.unless otherwise noted.
- All voltages are in V.
- lacktriangle Readings are taken with a 10M  $\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input. no mark : PAL
- < > : SECAM
- ): NTSC 3.58MHz
- ): NTSC 4.43MHz
- adjustment for repair. ● Voltage variations may be noted due to normal production
- tolerances.
- \*\* \*\* : B-line
- signal path.

RESISTOR : RN METAL FILM

SOLID : RC

NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FPRD

: FUSE : RS NONFLAMMABLE WIREWOUND

NONFLAMMABLE CEMENT : RB

MICRO INDUCTOR : LF-8L

CAPACITOR : TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE

: PT MYLAR

METALIZED POLYESTER : MPS METALIZED POLYPROPYLENE

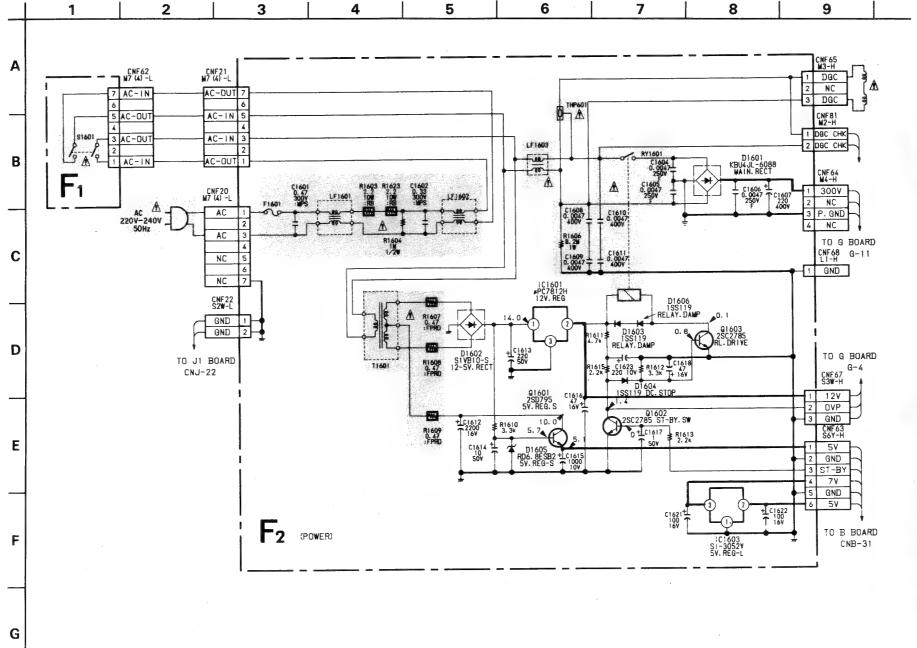
: MPP : ABL BIPOLAR

: ALT

HIGH TEMPERATURE

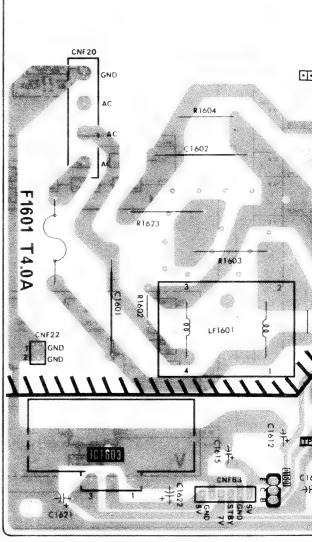
HIGH RIPPLE : ALR

Note: The components identified by shading and mark ne critical for safety. Replace only with part number specified.

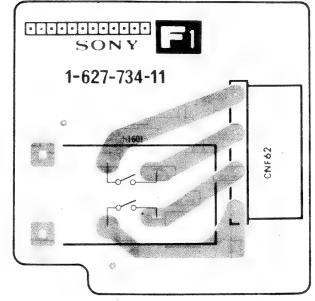


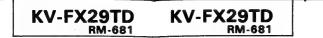
5-4. PRINTED WIRING BOARDS (1)

-F2 board-

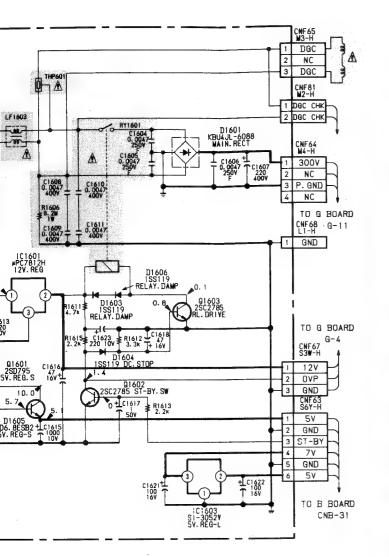


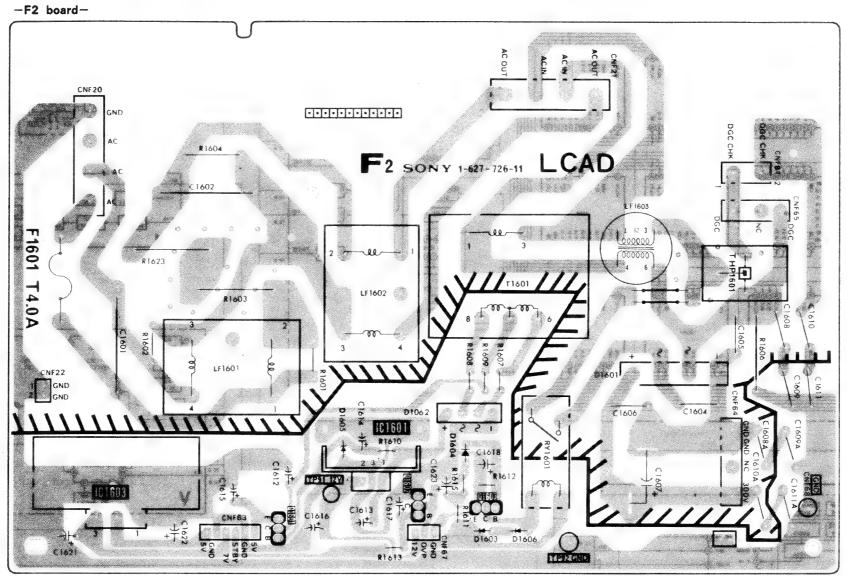
-F1 board-

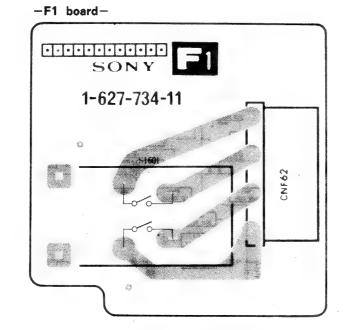




7 8 9 5-4. PRINTED WIRING BOARDS (1)





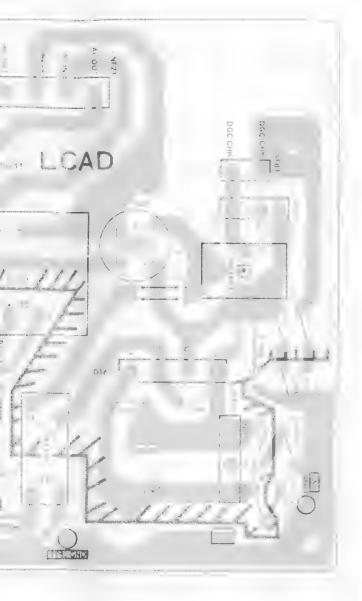


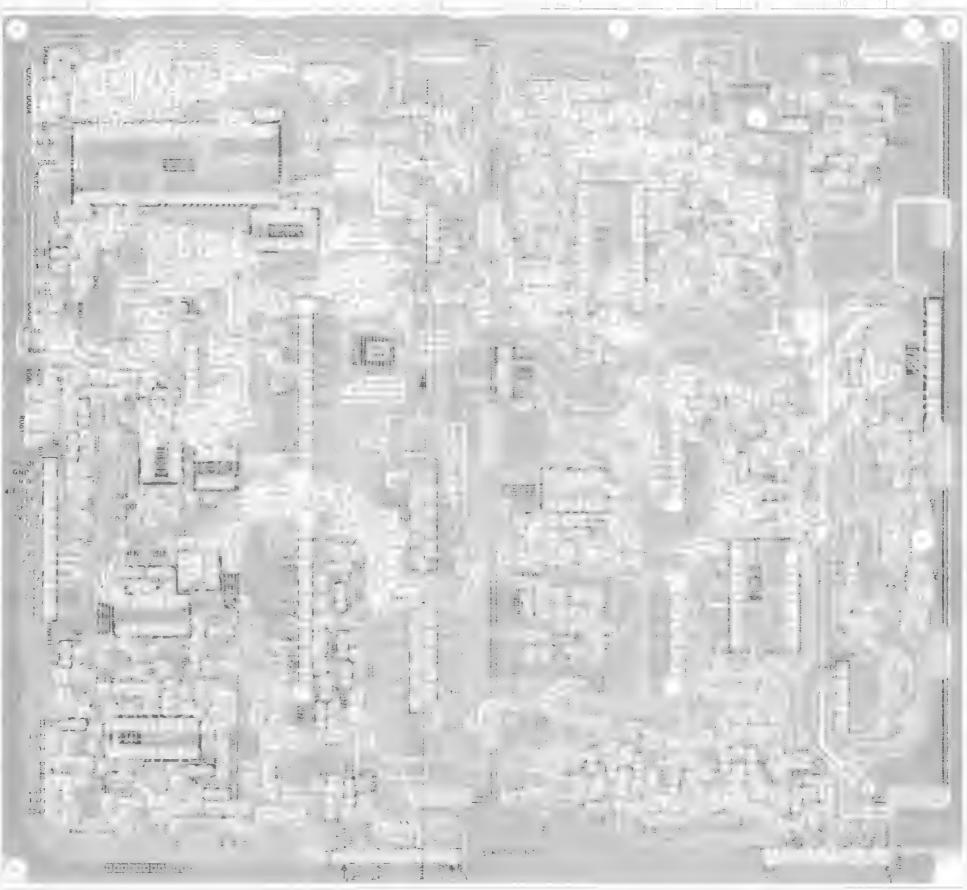
[POWER] F2

COMMANDER

R. G. B. OUT

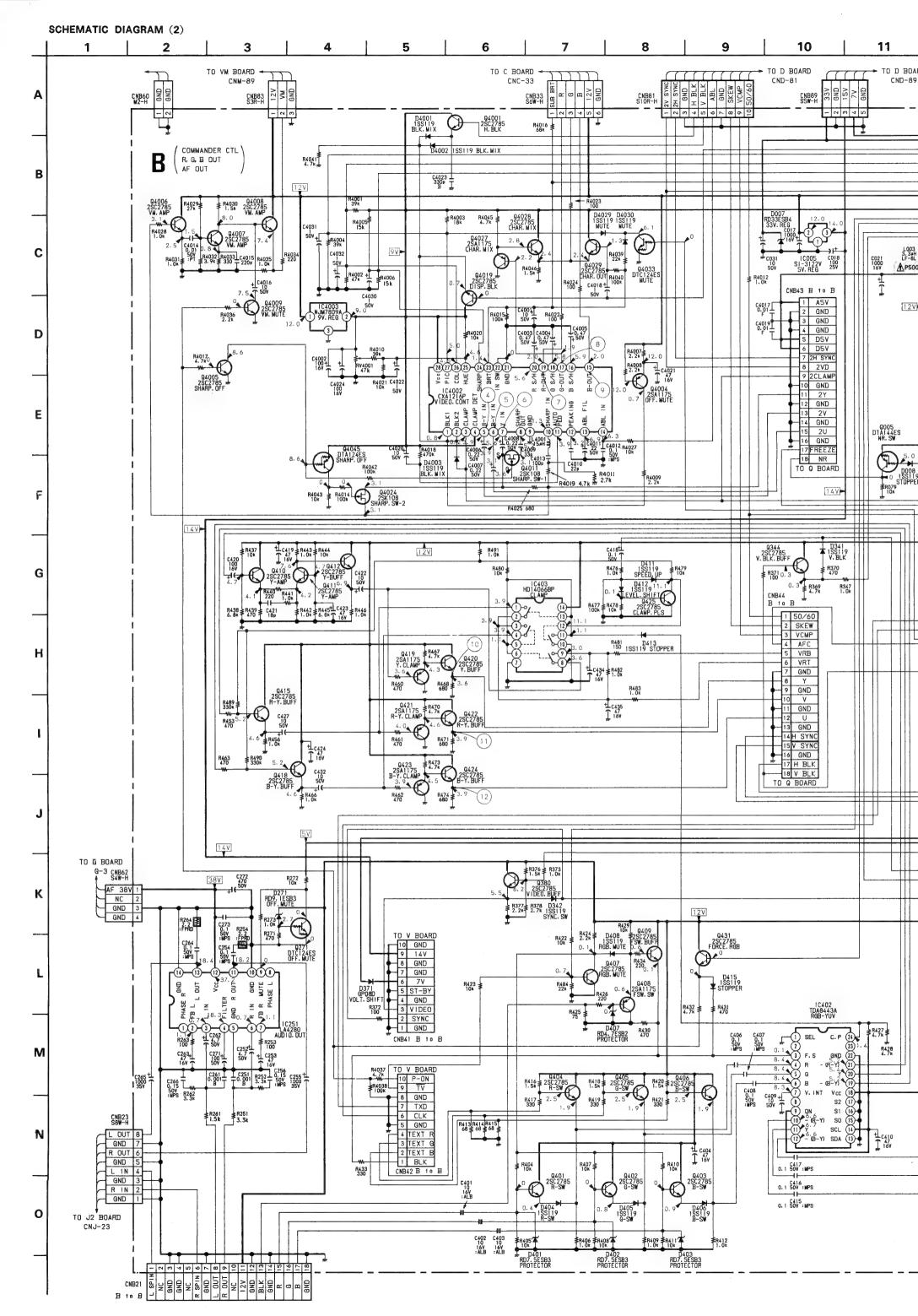


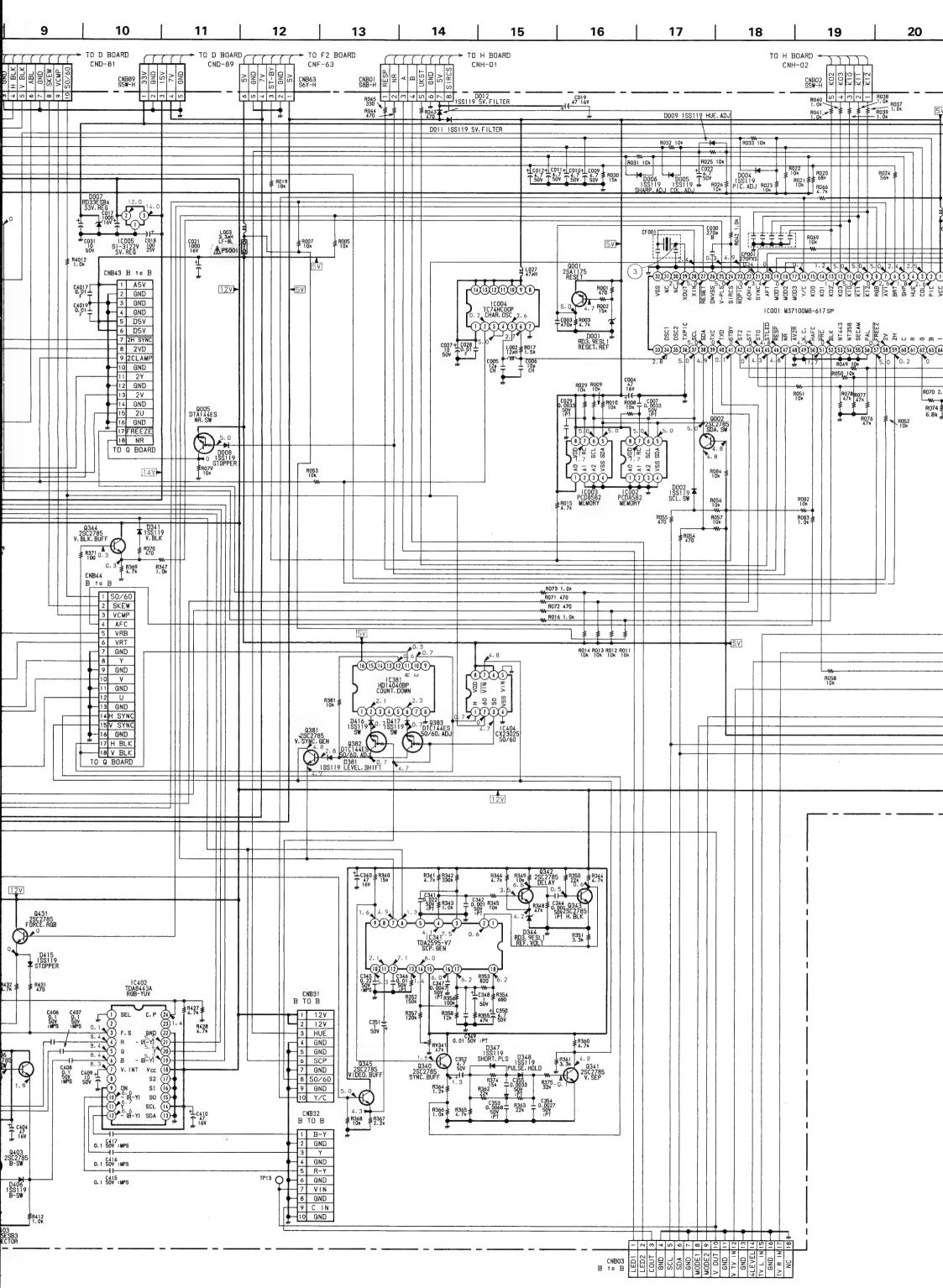


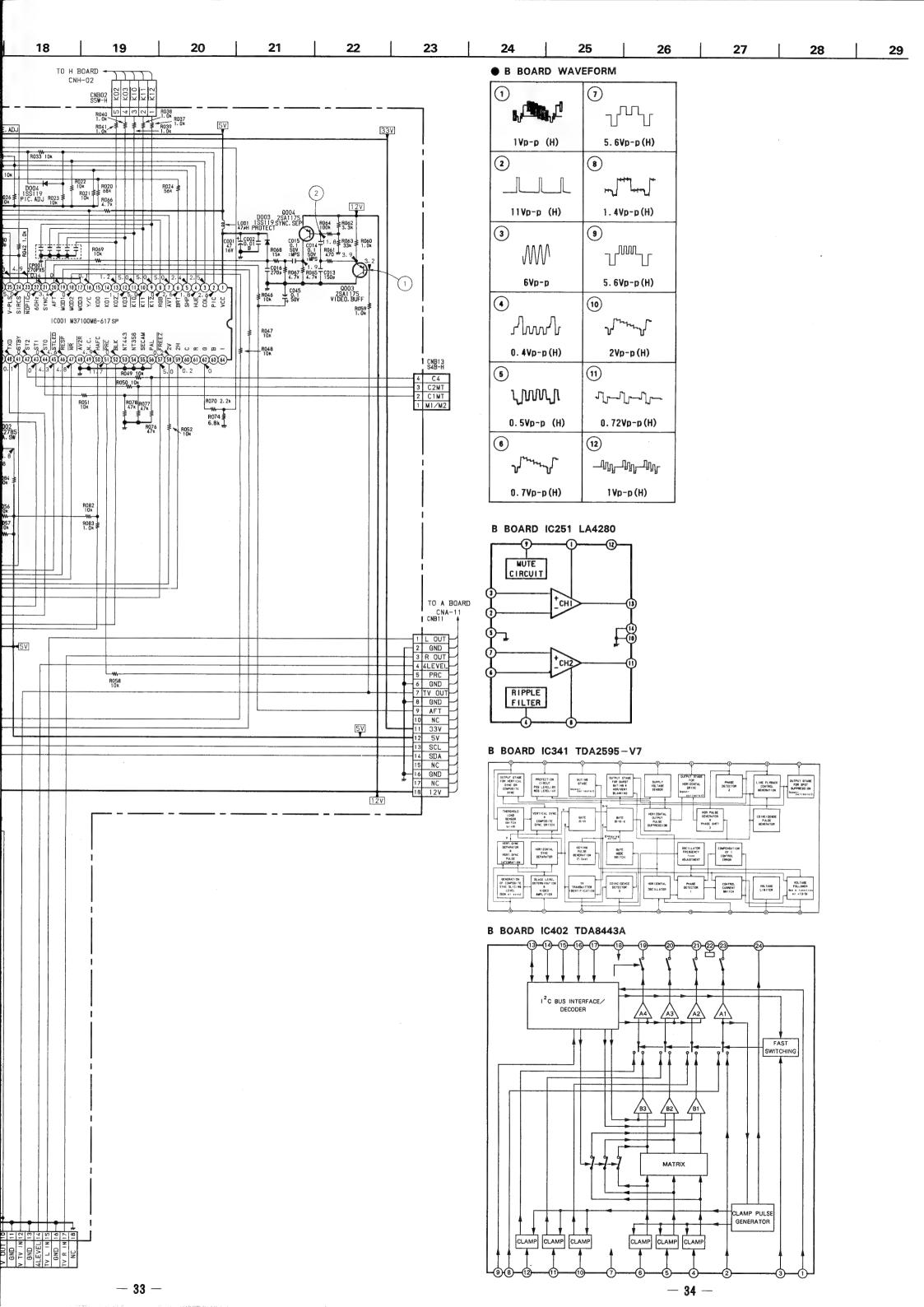


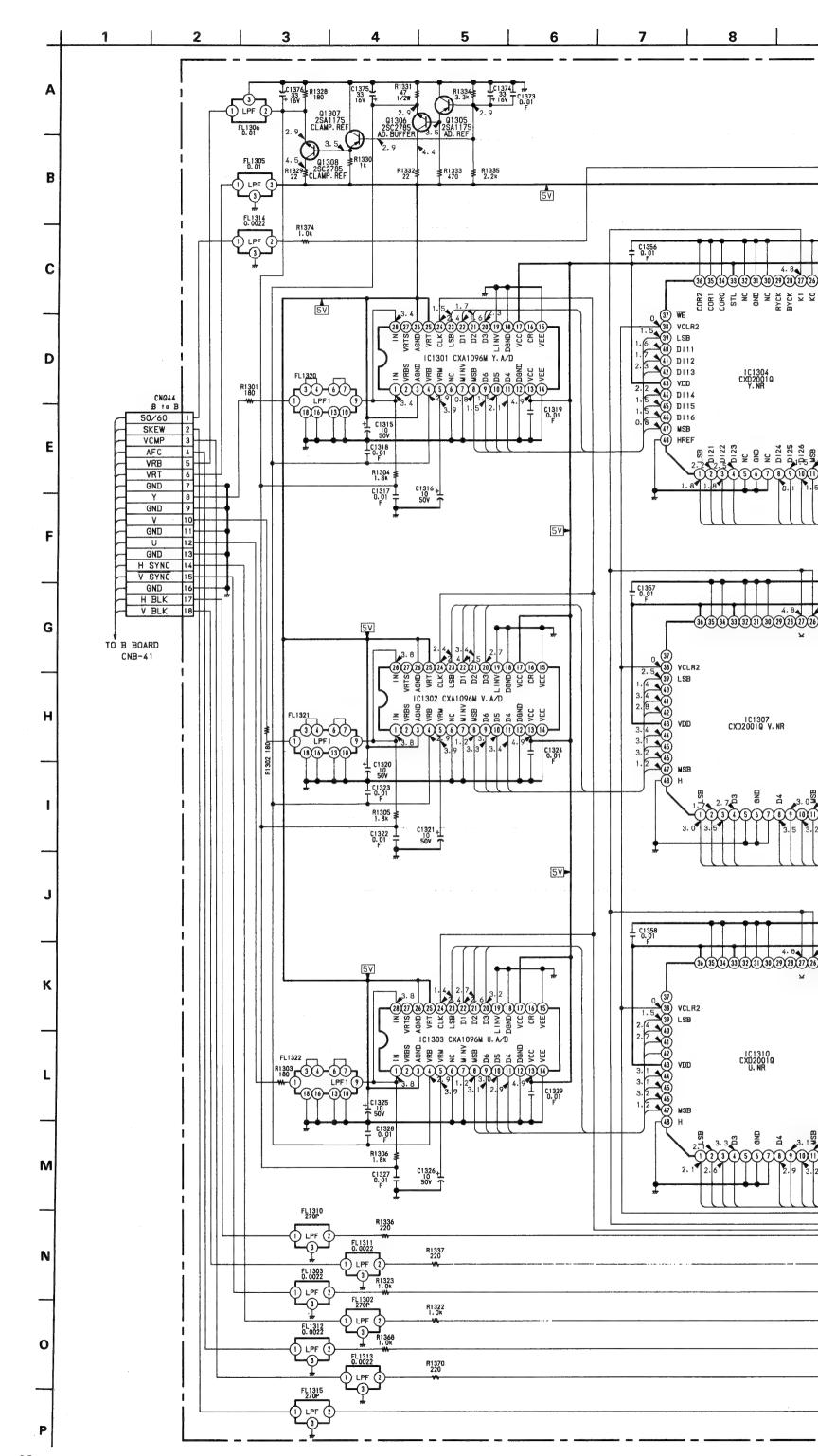
		1	
11	C	04006	C-9
10001	B-2	04007	B-10
10002	F 3	Q4008	B-10
(0.003	F - 2	04009	B 10
5004	0 4	04011	C- 6
ocos	€ 6	3.011	0 0
		Q4019	B-6
IC251	E - 11	04024	C-6
10231	1-2	04024	
IC381			C9
	G-2 G-9	04029	8-8
IC402	0-9	04033	A-8
10403		04045	0.7
IC404	6-3	Q4045	07
104002	0 - 7	5.0	
104002	B-9	DIO	DF
104003	5 9	D001	D-2
		D002	E-2
THAN,	3"" DR	D003	D-1
7. [1	0 - 1	D004	B-1
2002	E-2	D005	A-1
3159	E-1		
2014	E-1	D006	A-2
2 % 3	D3	2007	F - 1
		D008	D-2
C= 2"	D-10	D009	A-1
0,500	1 - 2	D011	E-3
	1-1	DOTT	E 3
0341		5013	
2342	- 3	0012	E-3
0348	1 – 3	D271	E-3
		D341	E-10
2,344	9-3	D342	G-5
2345	H-3	D344	J-3
3350	1-4		
3:01	H - 1	D347	J1
7:12	G-2	D348	1-1
		D371	E-5
1343	G - 2	D381	H-1
0.401	1-9	D401	1-9
1,402	· 8		
3403	1-7	D402	J-8
1414	: 9	D403	J8
		D404	1-9
Q405	1-8	D405	1-8
Q406	1-7	D406	1-7
0468	9		
0409	! 10	D407	J-9
0410	F - 9	D408	1-9
		D411	G-7
2411	E-9	D412	G-7
0412	E-9	D413	G-8
2415	E8		, ,
Q418	E - 9	0415	F-10
0419	G 4	D416	G-2
	J 4	D417	G-2
0.430	2 4		
0420	G - 4	D4001	B-7
0421	H-5	D4002	B-7
0422	14-4		
0423	H-4	D4003	B-7
Q424	4-4	D4029	B-8
		D4030	B-8
0425	F - 7		
2431	E - 0	VARIA RESIS	
04701	8-7	RV341	
04004	8-9	P.	
04005	D-7	RV4001	C-9

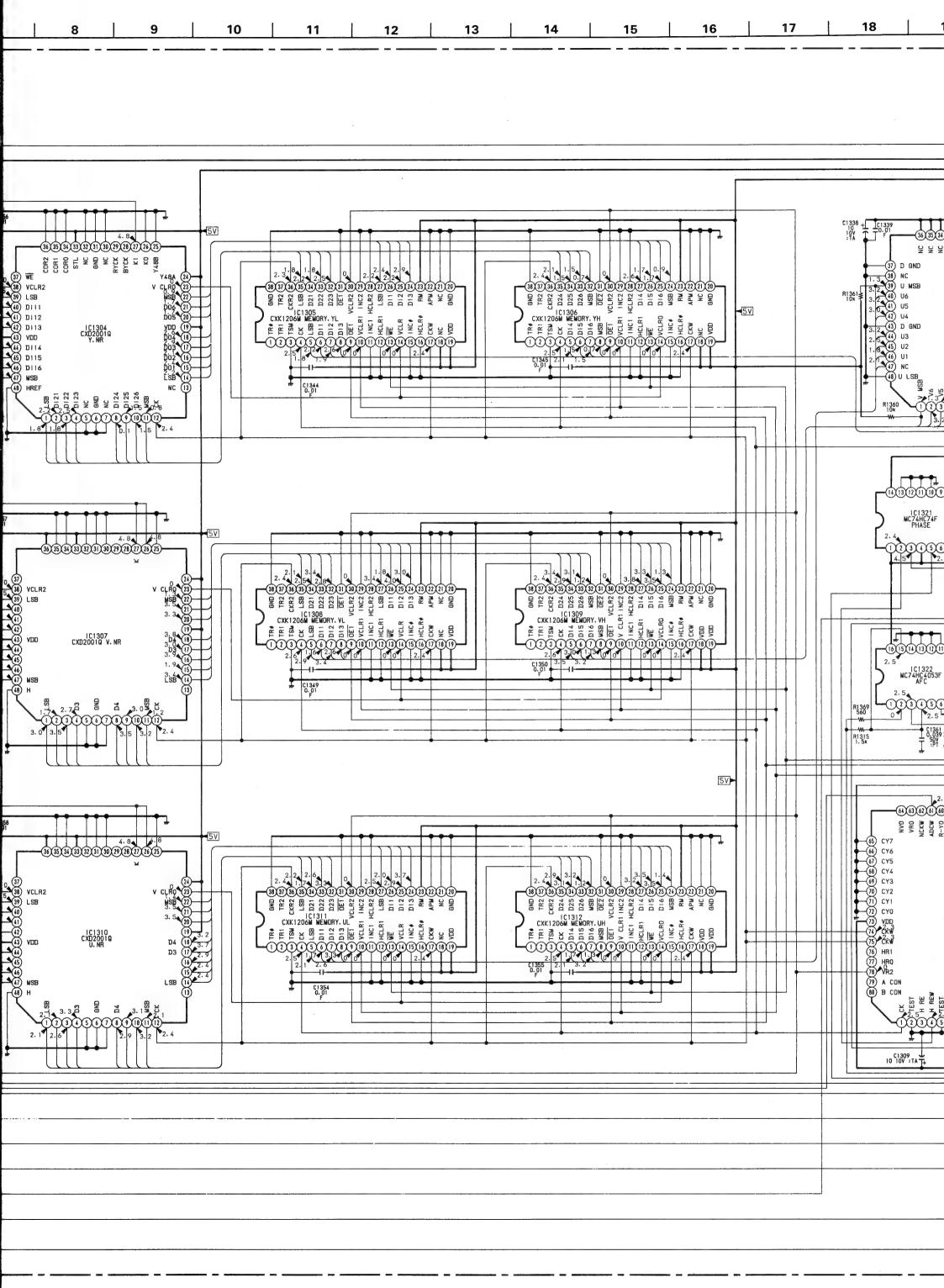
: Pattern of the rear side.

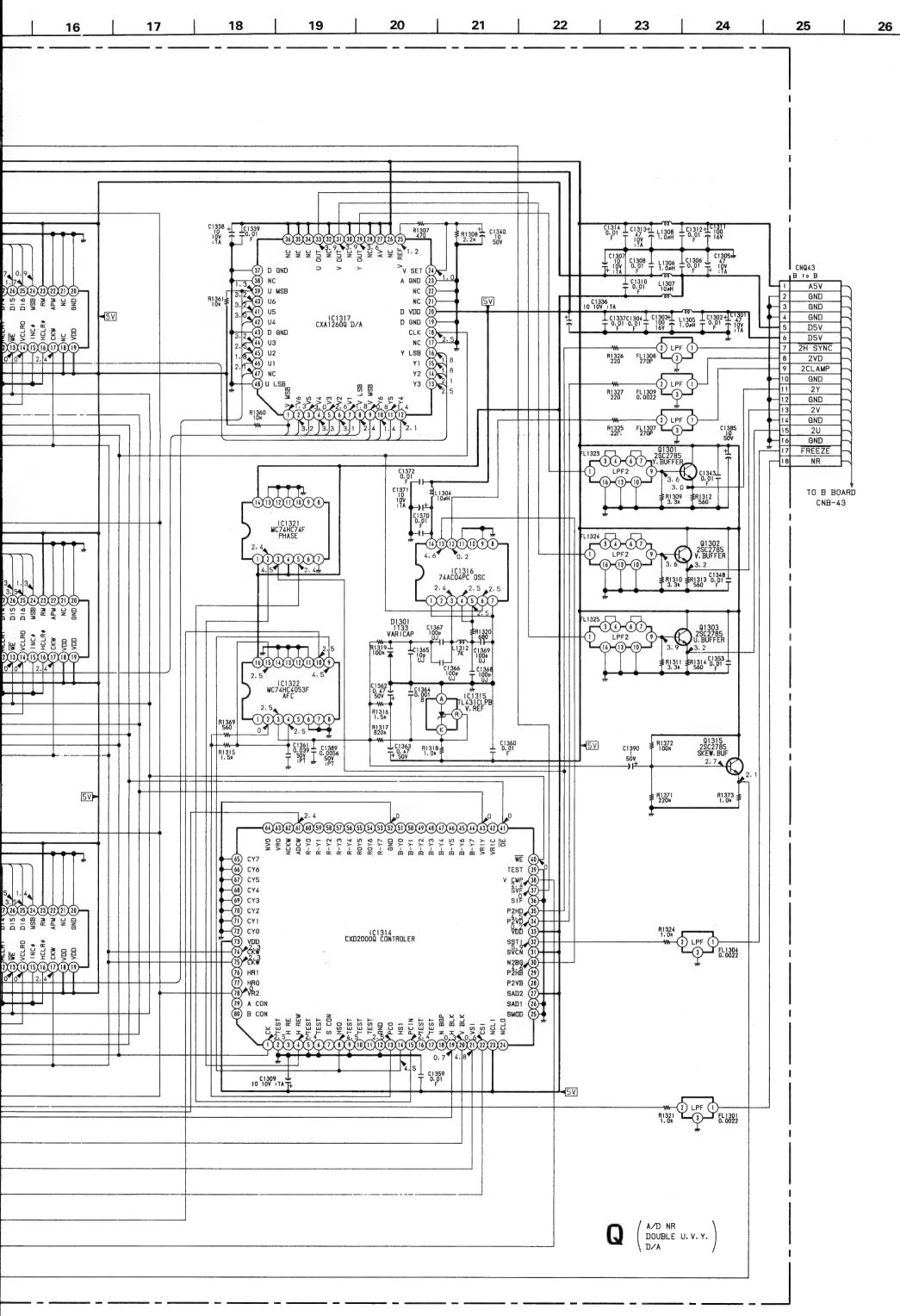












KV-FX29TD KV-FX29TD RM-681

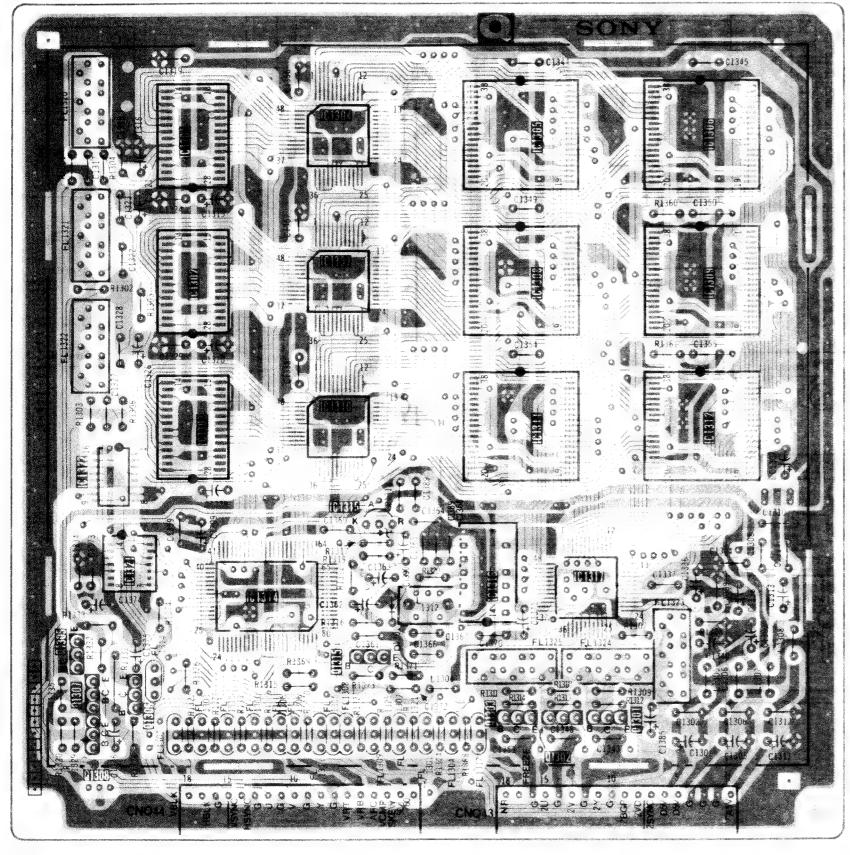
A/D NR

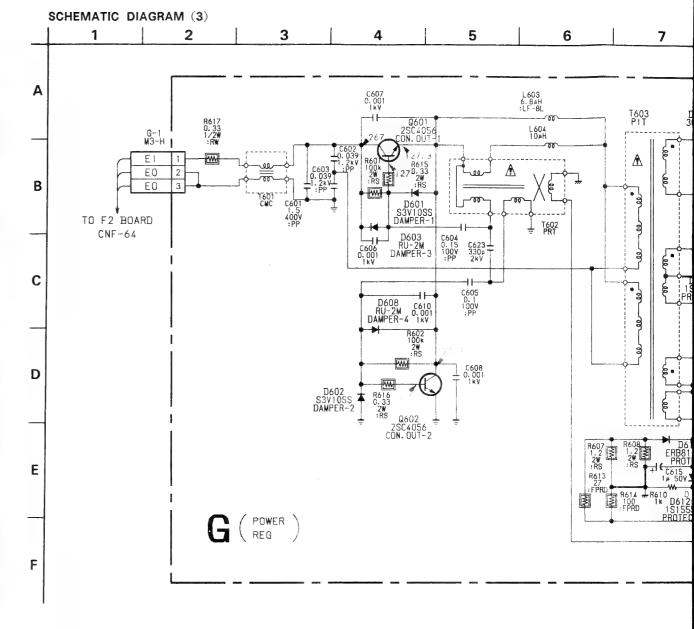
D/A

DOUBLE U. V. Y.

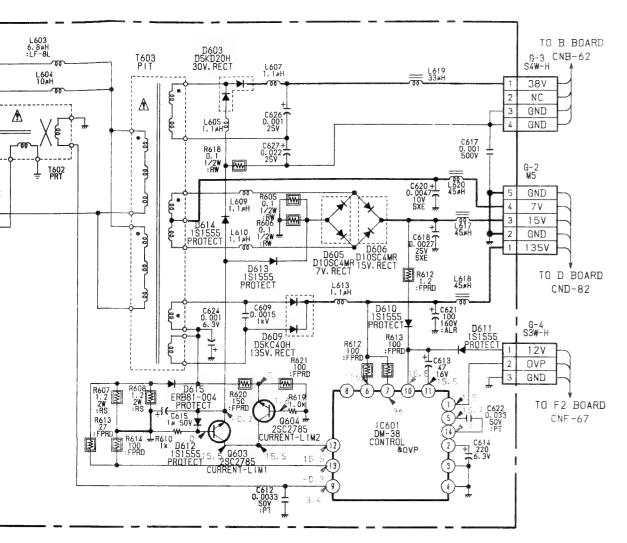
PRINTED WIRING BOARD (2)

Pattern on the side which is seen.
 Pattern of the rear side.







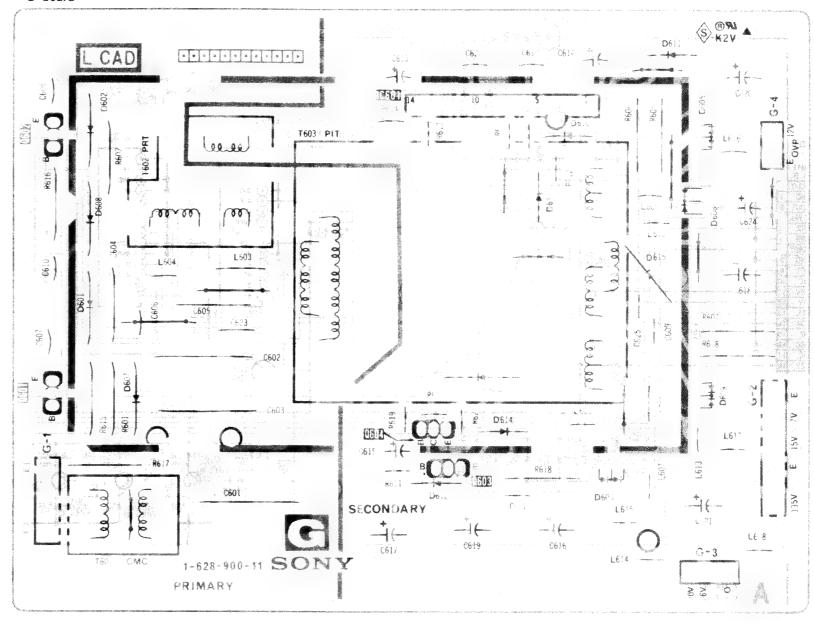


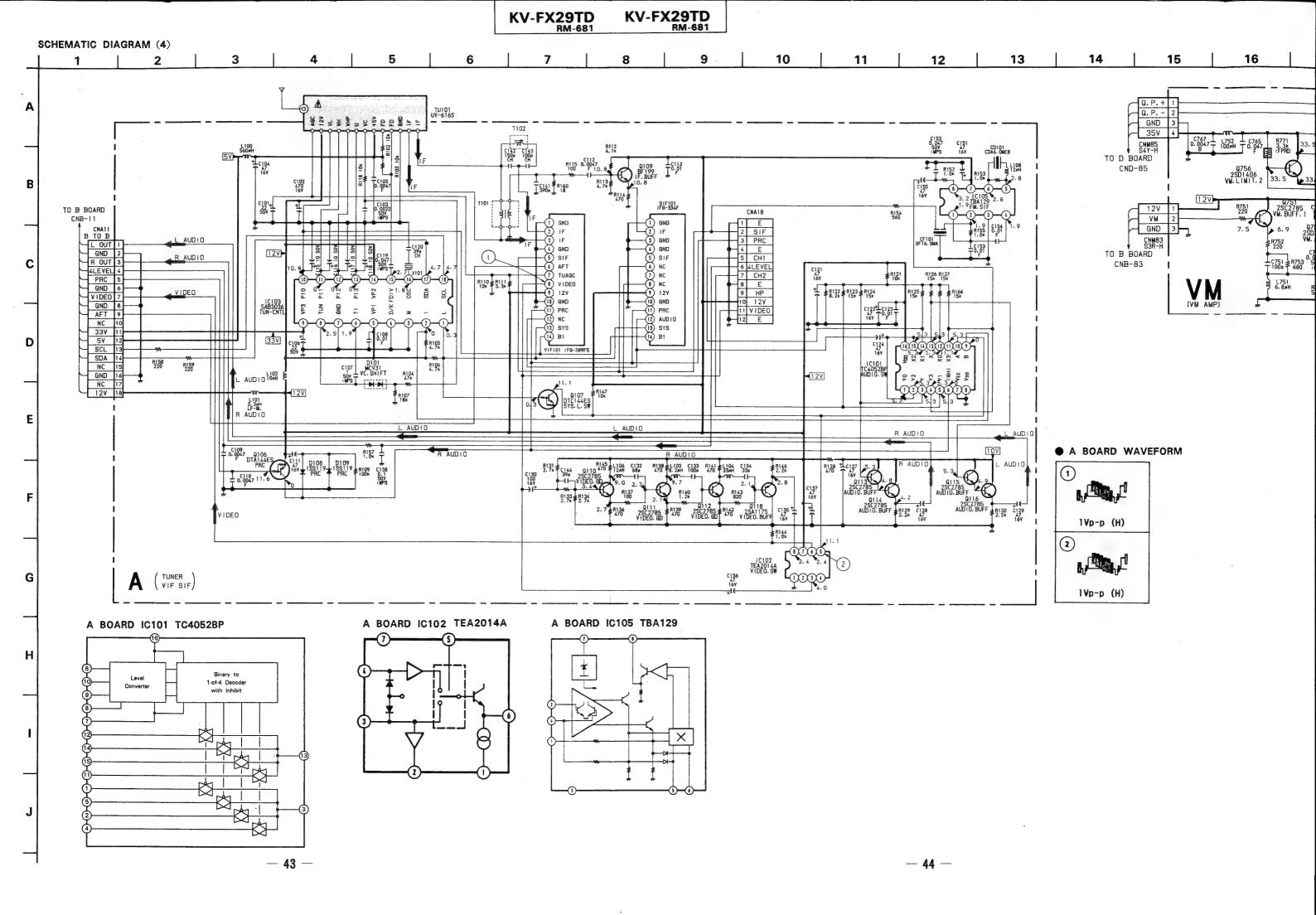
KV-FX29TD RM-681 KV-FX29TD RM-681

PRINTED WIRING BOARD (3)

G [POWER REG]

-G board-





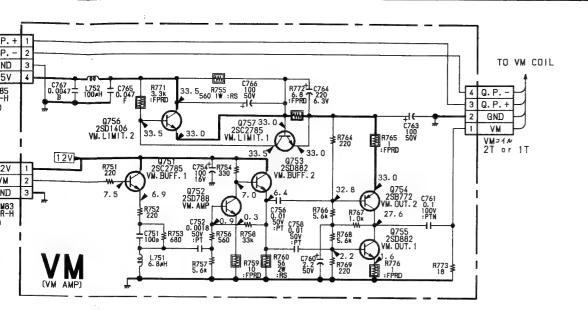


24

R3033 ≱

25

23



18

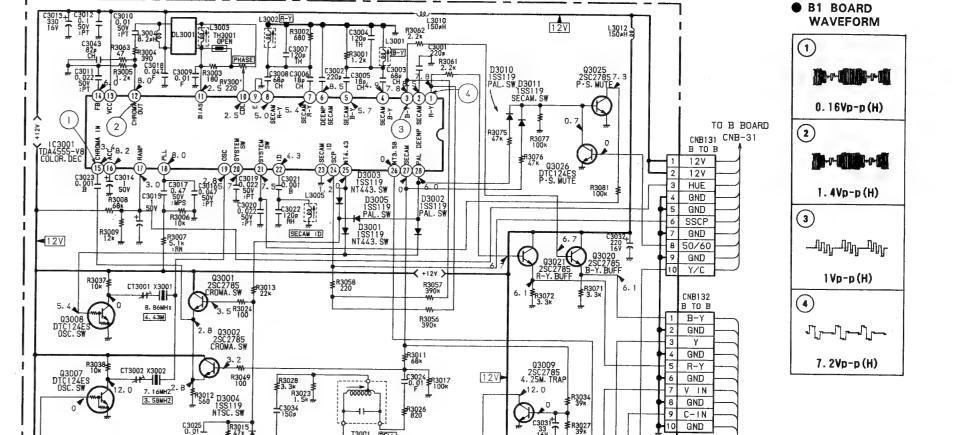
19

20

21

22

R3039 1.5



R3020 R3022 C3030 820 270 79 L3013 C3029 C3009 RH

> C3076 47 16V

> > **B** 1

CHROMA

DECODER

RH R3021 1 k 2 L3007 # 4. 25MHz

120

26

27

28

29

TO B BOARD

CNB-32

30

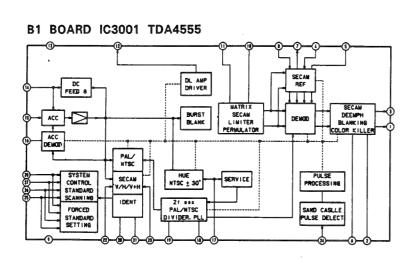
31

FORM

15

16

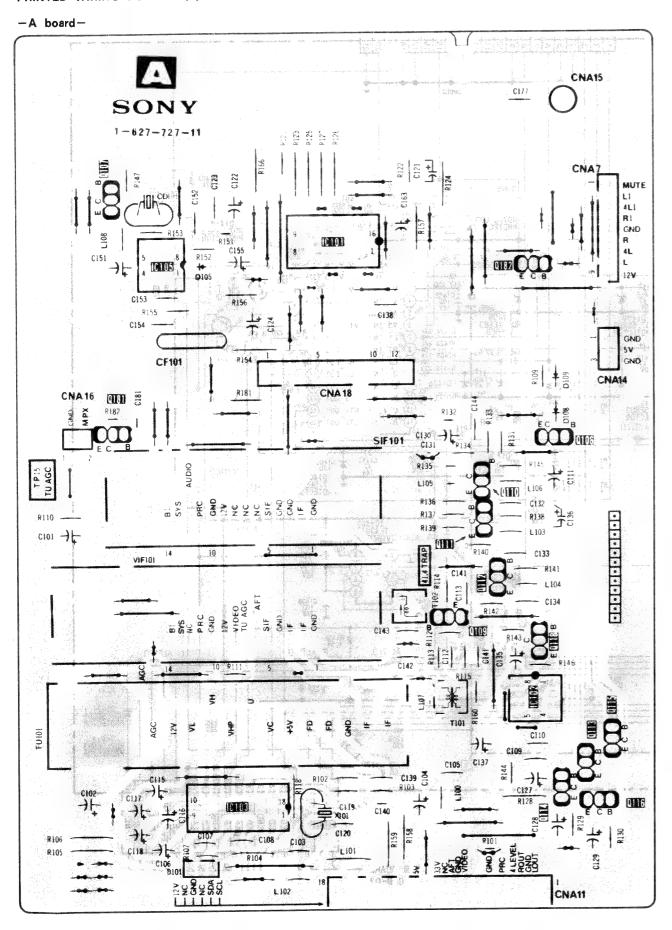
17

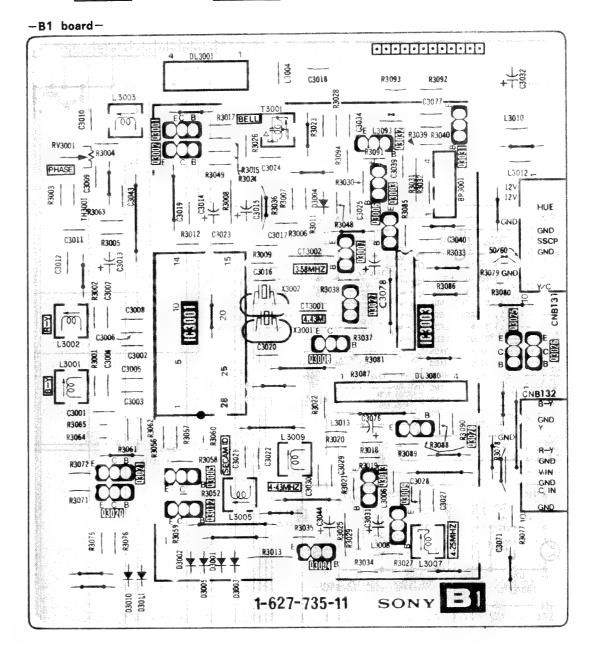


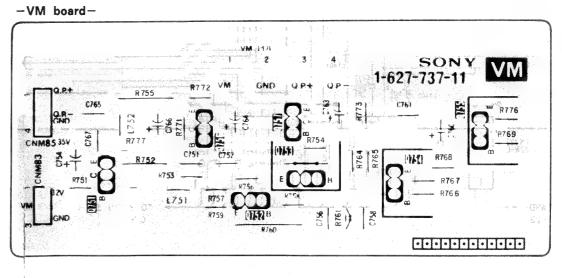
TUNER ]

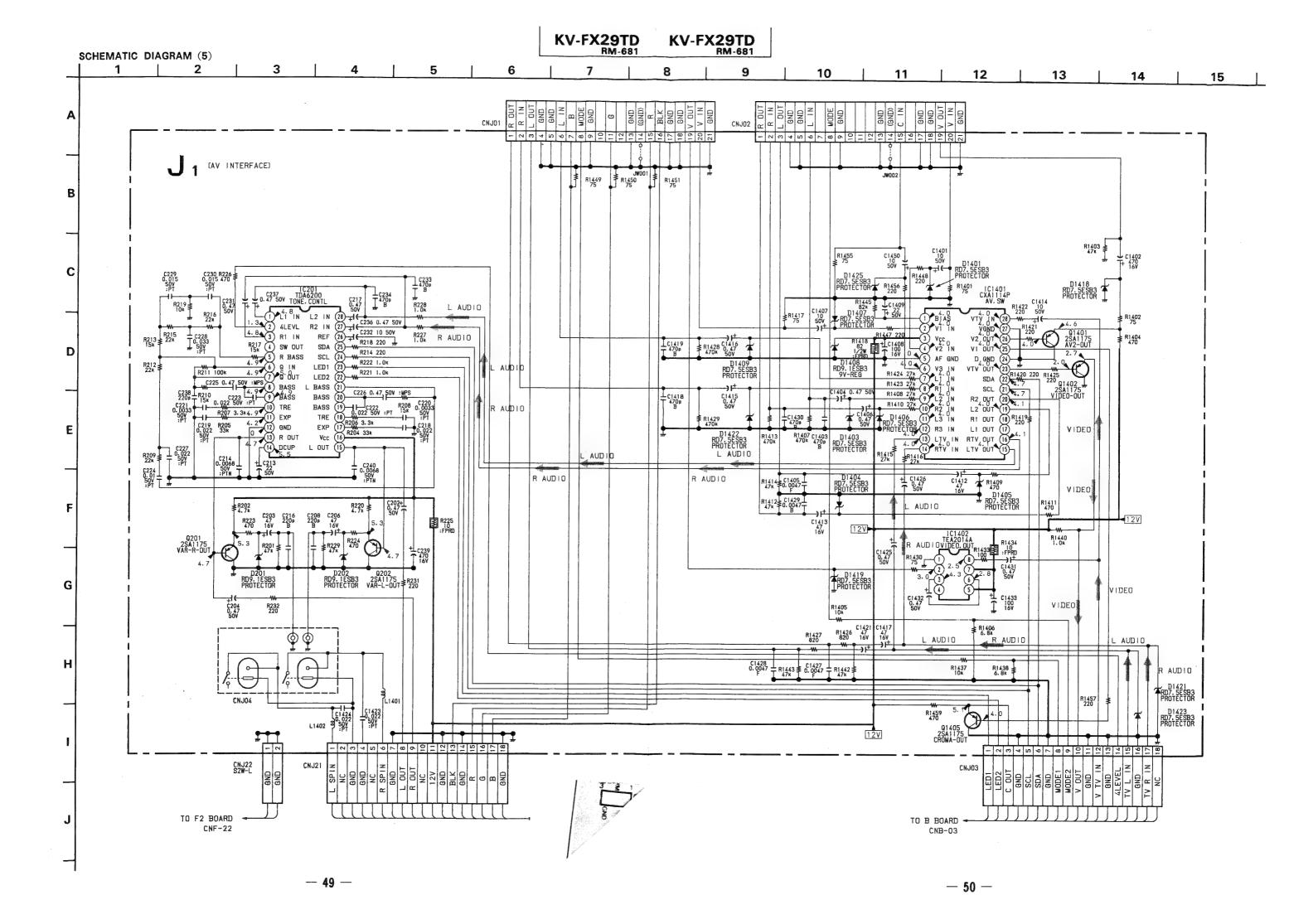
[CHROMA] VM [VM AMP]

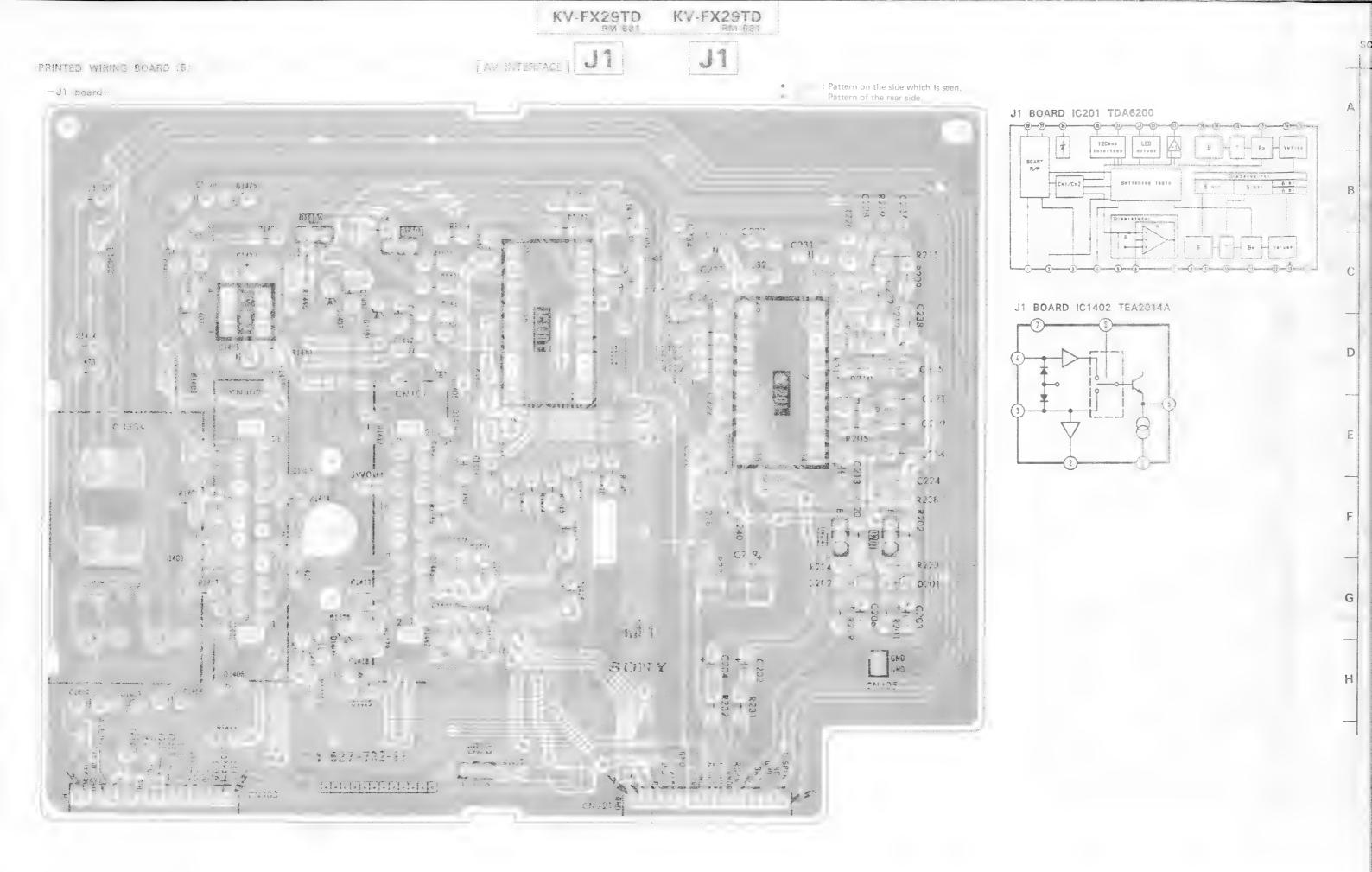
#### PRINTED WIRING BOARDS (4)







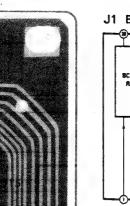


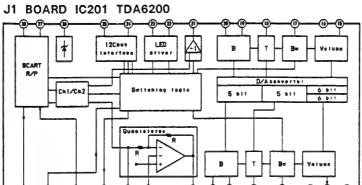


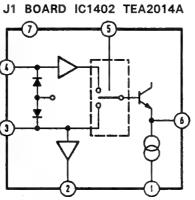
[sw] H

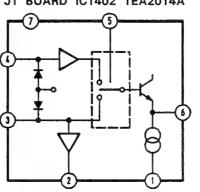
J1

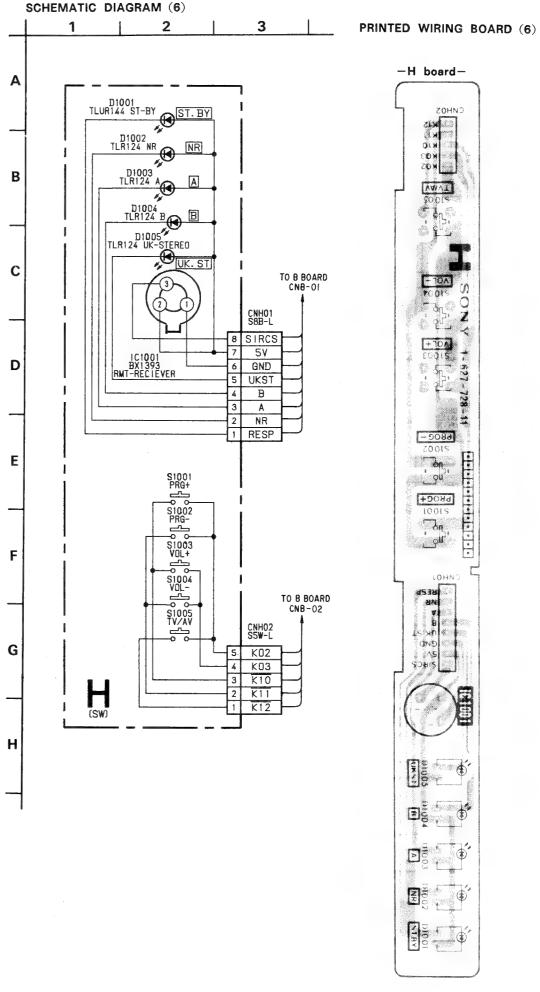
• Pattern on the side which is seen. Pattern of the rear side.

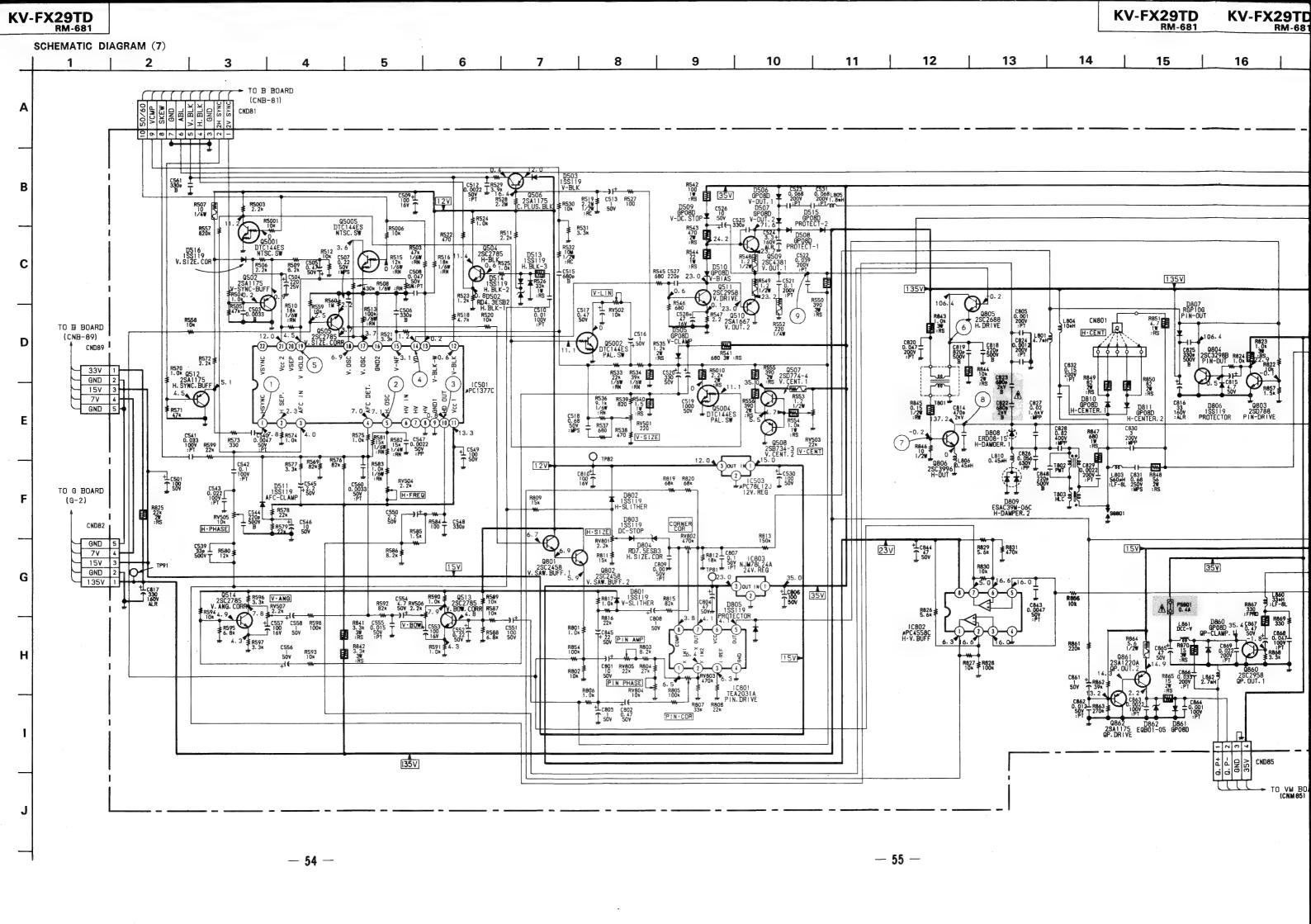


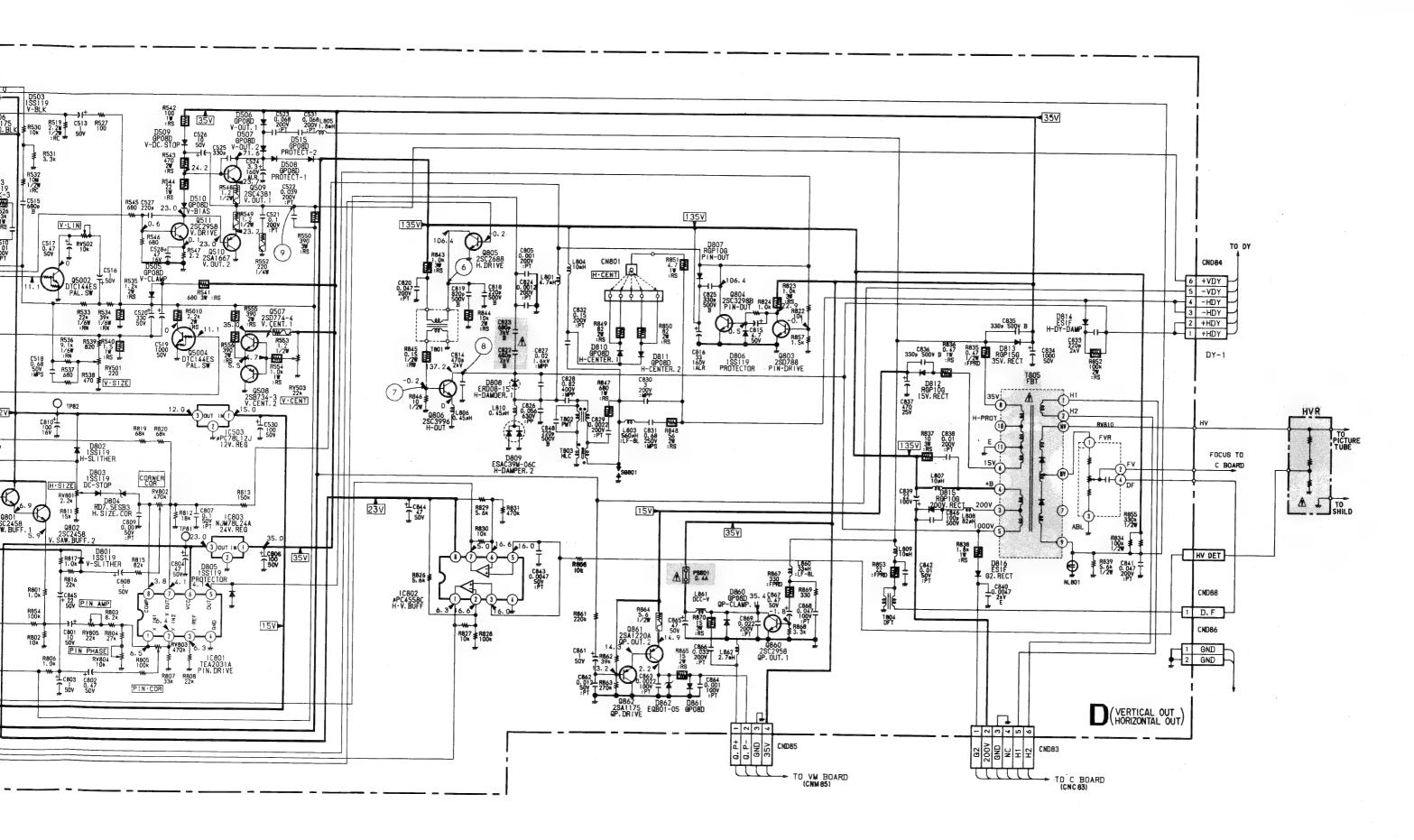


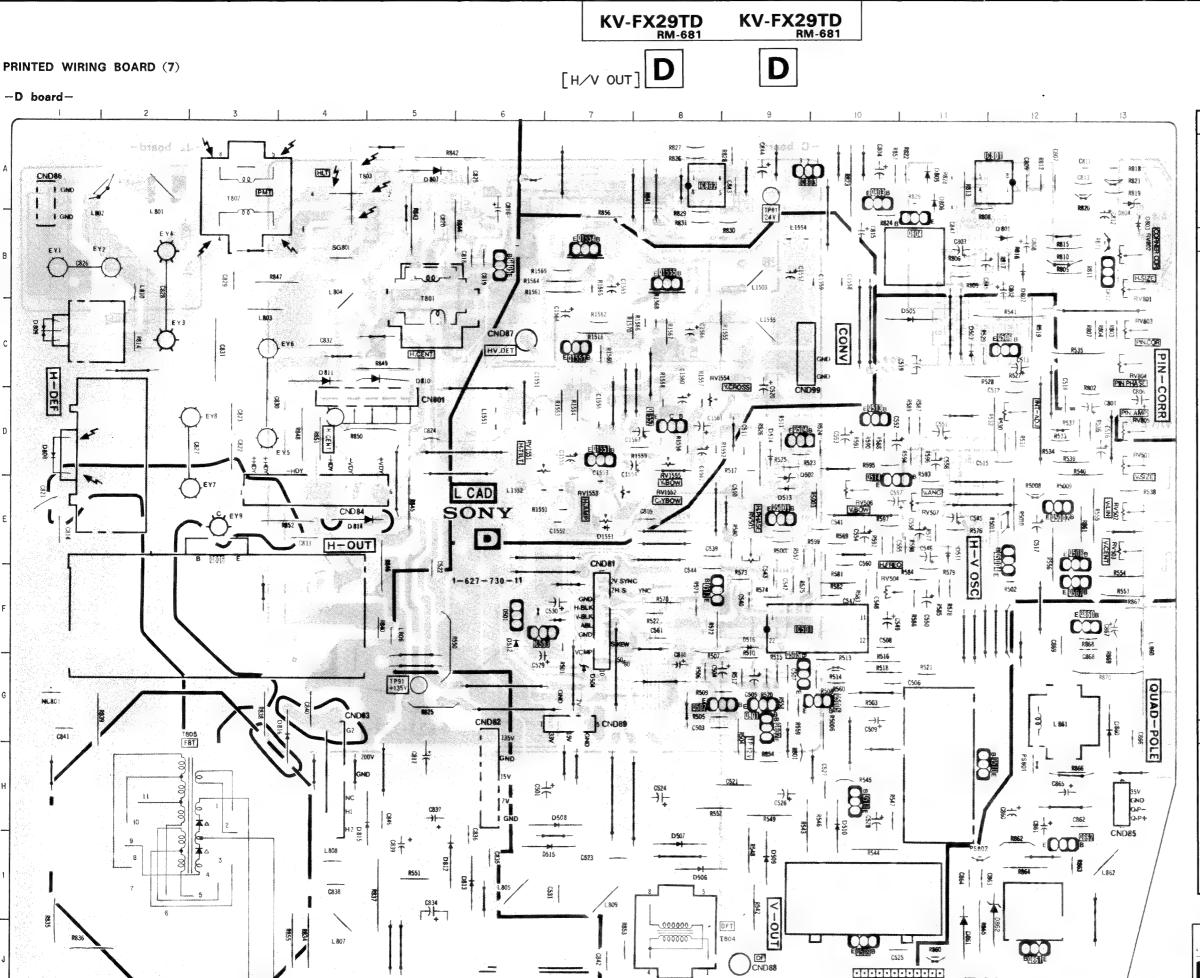


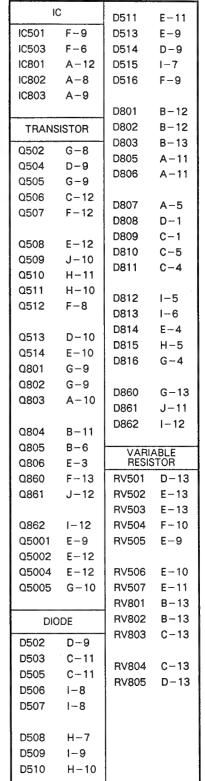


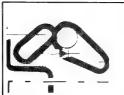












#### NOTE:

The circuit indicated as left contains hig 600 Vp-p. Care must be paid to prevent a inspection or repairing.

D BOAR

5Vp-p

2Vp-p

2Vp-p

3Vp-p

D BOARD !

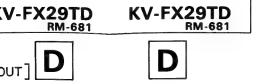
(1)

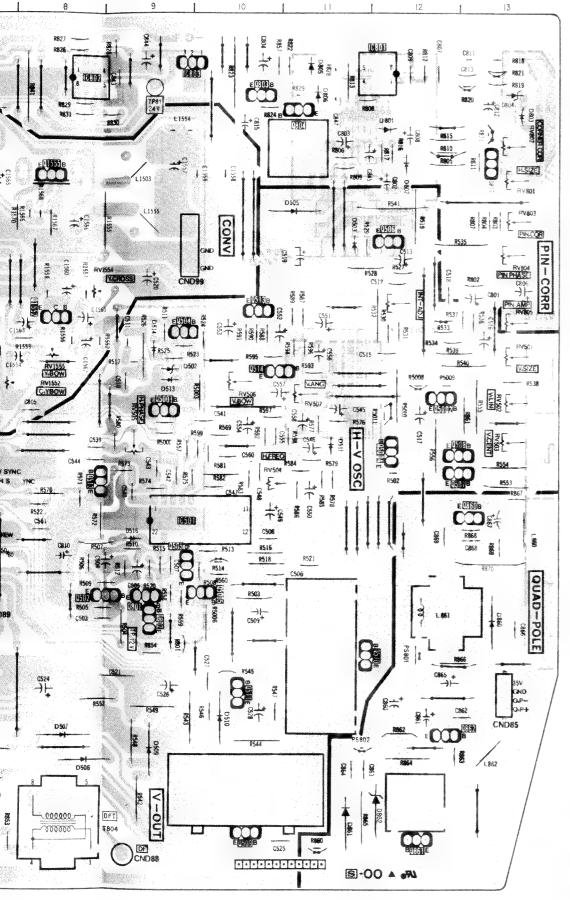
(2)

**(4)** 

(5)

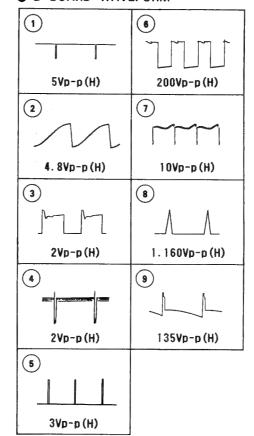
S-00 ▲ •AL

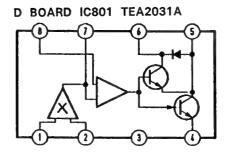




10	`		
		D511	E-11
IC501	F-9	D513	E-9
IC503	F-6	D514	D-9
IC801	A-12	D515	1-7
IC802	A-8	D516	F-9
IC803	A-9		
		D801	B-12
TRANS	ISTOR	D802	B-12
Q502	G-8	D803	B-13
Q504		D805	A-11
	D-9 G-9	D806	A-11
Q505	G-9 C-12		
Q506	F-12	D807	A-5
Q507	F-12	D808	D-1
0500	F 10	D809	C-1
Q508	E-12	D810	C-5
Q509	J-10	D811	C-4
Q510	H-11		
Q511	H-10	D812	I-5
Q512	F-8	D813	I6
OE12	D. 10	D814	E-4
Q513	D-10	D815	H-5
Q514	E-10	D816	G-4
Q801	G-9		
Q802	G-9	D860	G-13
Q803	A-10	D861	J-11
0004	D 44	D862	I-12
Q804	B-11		
Q805	B-6	VARI	ABLE
Q806	E-3	RESIS	
Q860	F-13	RV501	D-13
Q861	J-12	RV502	E-13
0060	1 10	RV503	E-13 F-10
Q862	I-12	RV504	
Q5001	E-9	RV505	E9
Q5002	E-12	D)/E00	E 10
Q5004	E-12	RV506	E-10
Q5005	9-10	RV507	
		RV801	B-13
DIO	DE	RV802	
D502	D-9	RV803	C-13
D503	C-11	D) 400 4	0 10
D505	C-11	RV804	C-13
D506	I8	RV805	D-13
D507	1-8		
D508	H-7		
D509	1-9		
D510	H-10		
		1	

#### D BOARD WAVEFORM

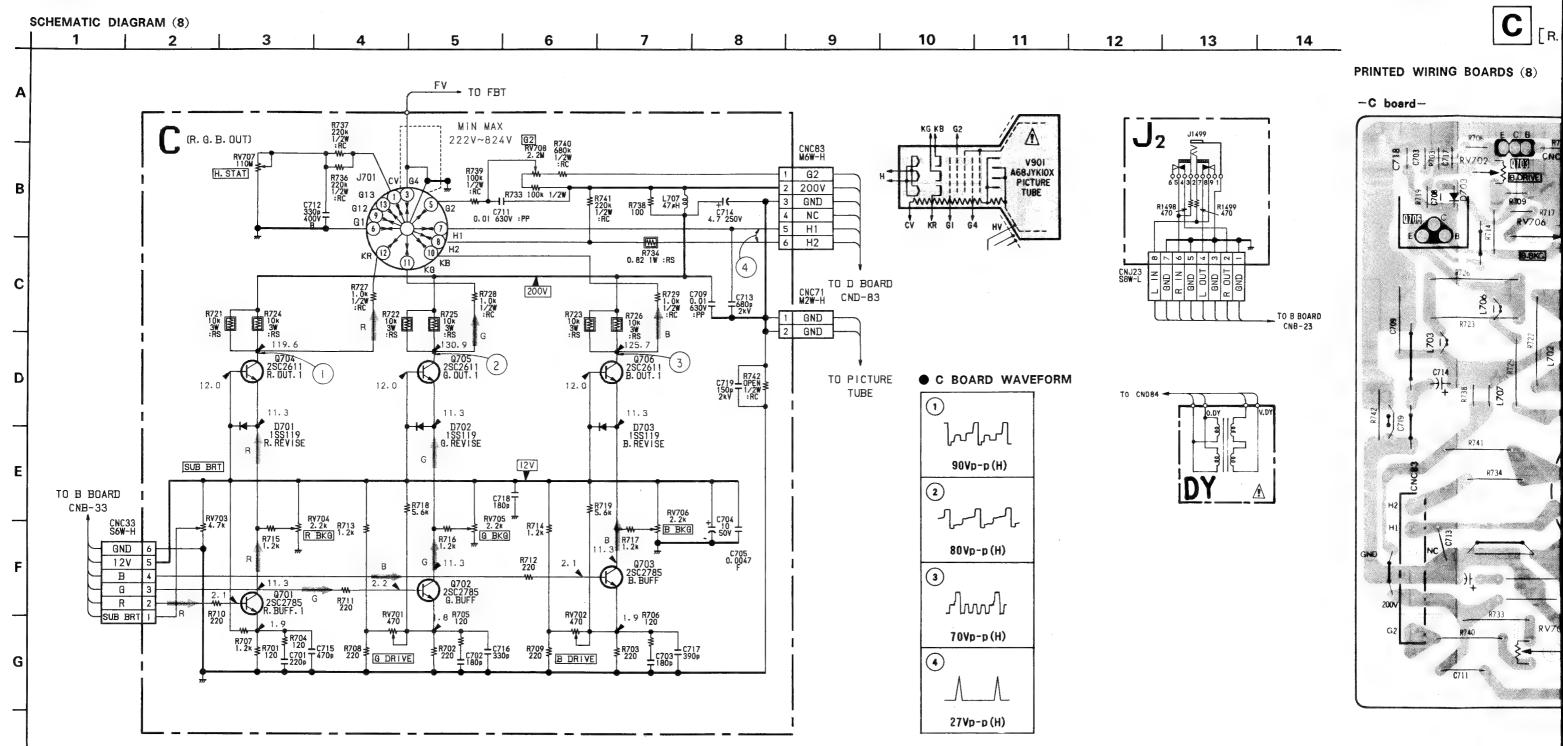


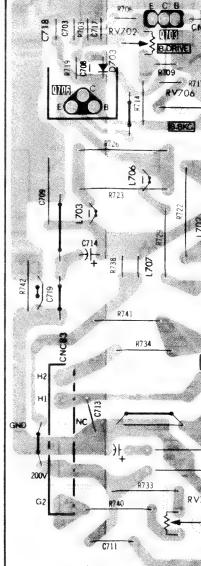


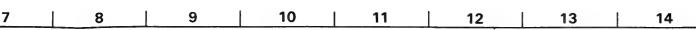


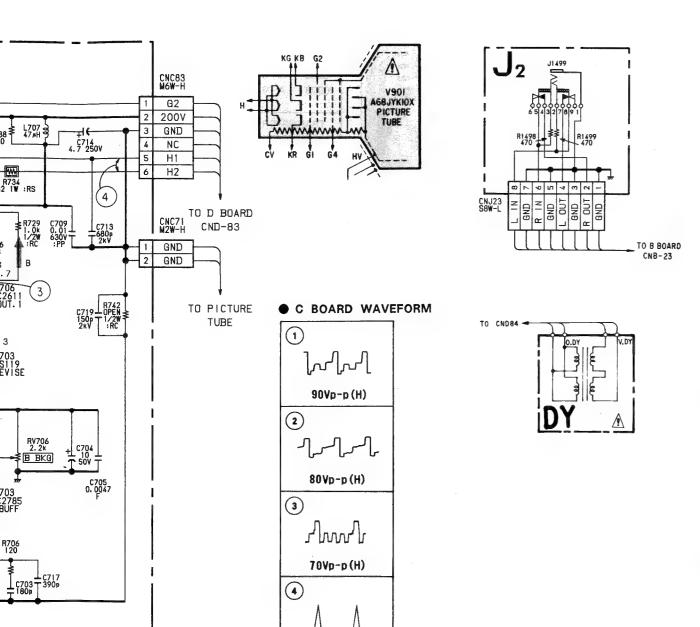
#### NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



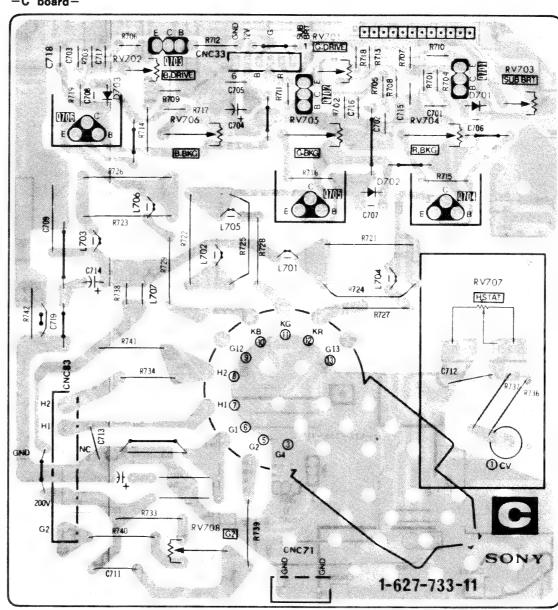




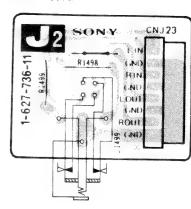


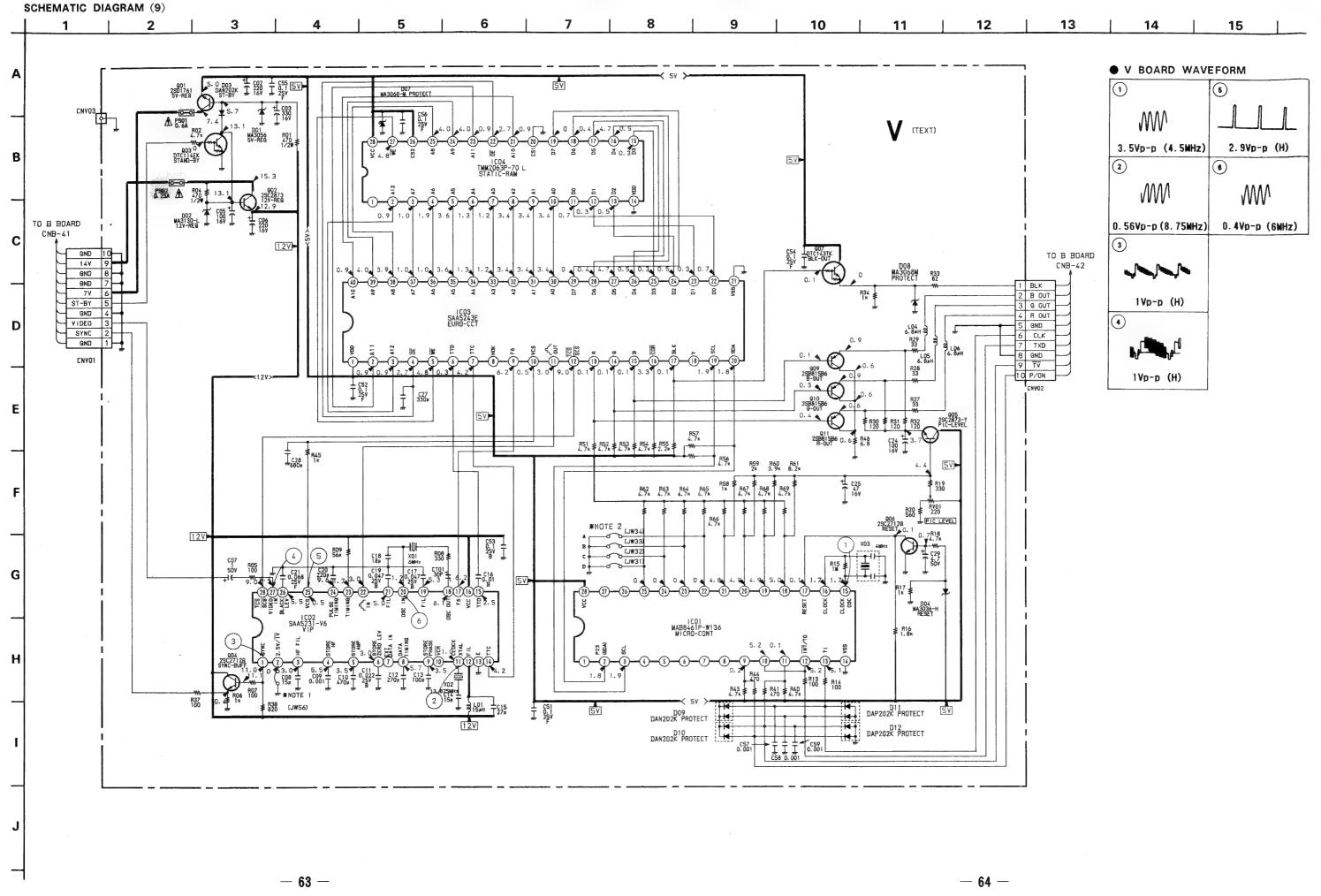
27Vp-p(H)

PRINTED WIRING BOARDS (8) -C board-



-J2 board-

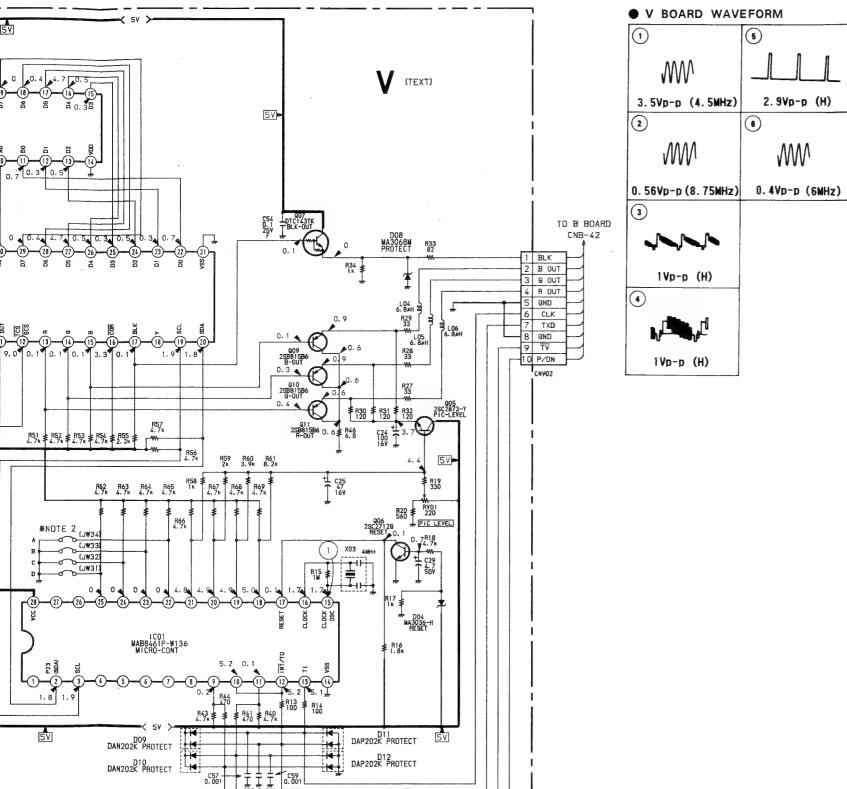




KV-FX29TD RM-681

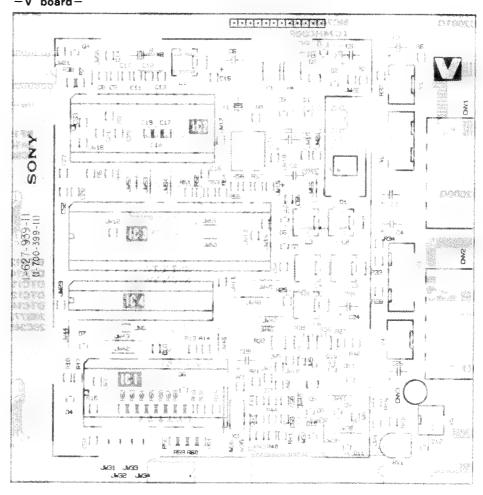


7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

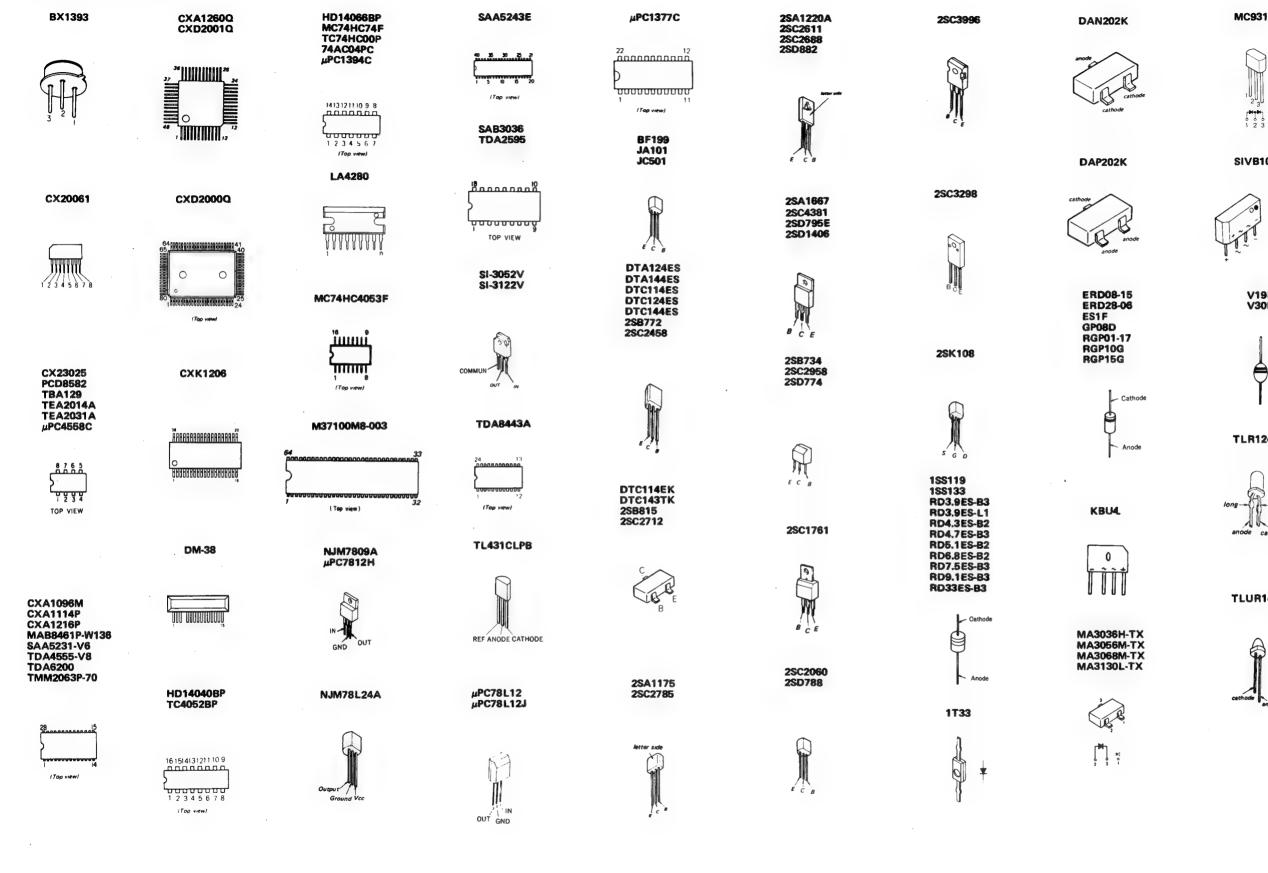


PRINTED WIRING BOARD (9)

-V board-



#### 5-5. SEMICONDUCTORS





SIVB10S







**TLR124** 



**TLUR144** 



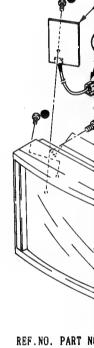
NOTE:

 Items with no cription are are seldom re
 The construct part are in

number in the · Items marked they are si service. Some

6-1. CHA • BV

BV



1 \*A-1245 2 A 4-389-3 A 1-574-4 4-302-5 A 1-230-6 \*1-627-7 A 1-439-8 \*A-1345-9 3-701-10 A 1-238-11 4-386-12 \*A-1296-13 A 1-465-

## SECTION 6 EXPLODED VIEWS

#### NOTE:

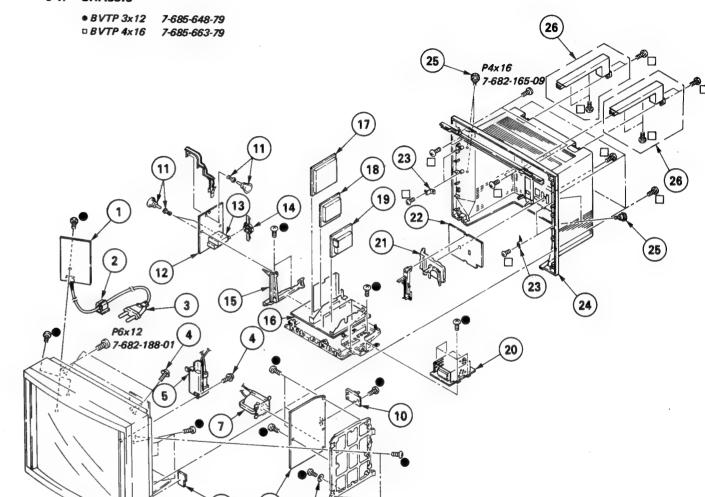
- Items with no part number and no description are not stocked because they are seldom required for routine service.
   The construction parts of an assembled
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

# The components identified by

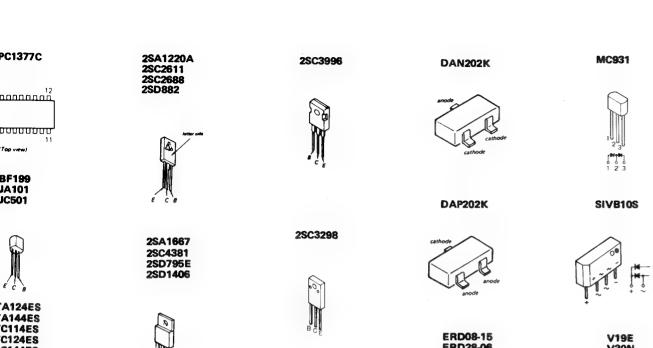
shading and mark 
are critical for safety.

Replace only with part number specified.

#### 6-1. CHASSIS



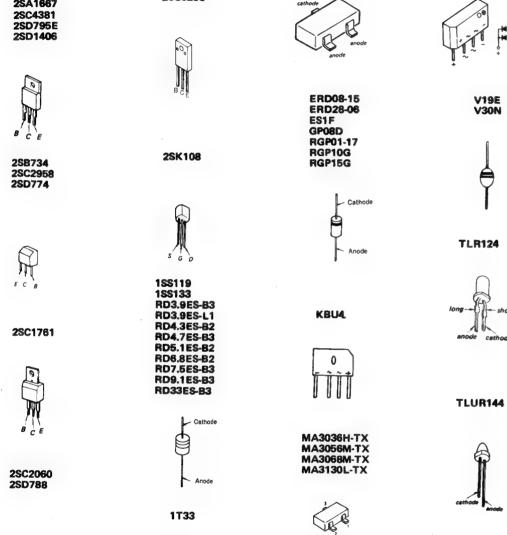
REF.NO. PART NO.	DESCRIPTION REMA	RK   REF. NO	. PART NO.	DESCRIPTION	REMARK
2 A. 4-389-201-01 3 A. 1-574-299-11 4 4-302-934-00 5 A. 1-230-940-31 6 *1-627-736-11 7 A. 1-439-443-11 8 *A-1345-798-A 9 3-701-418-00 10 A. 1-238-368-11	TRANSFORMER ASSY, FLYBACK D BOARD, COMPLETE WASHER, SPECIAL RESISTOR ASSY, HIGH-VOLTAGE RIVET, T TYPE	17 18 19 20 21 21	*A-1275-093-A *A-1347-031-A *A-1135-526-A	BRACKET, A B BOARD, COMPLETE Q BOARD, OMPLETE V BOARD, COMPLETE B1 BOARD, COMPLETE REGULATOR, SWITCHING (ZD-109) BRACKET, J J1 BOARD, COMPLETE BRACKET, SPEAKER COVER, REAR	



C144ES

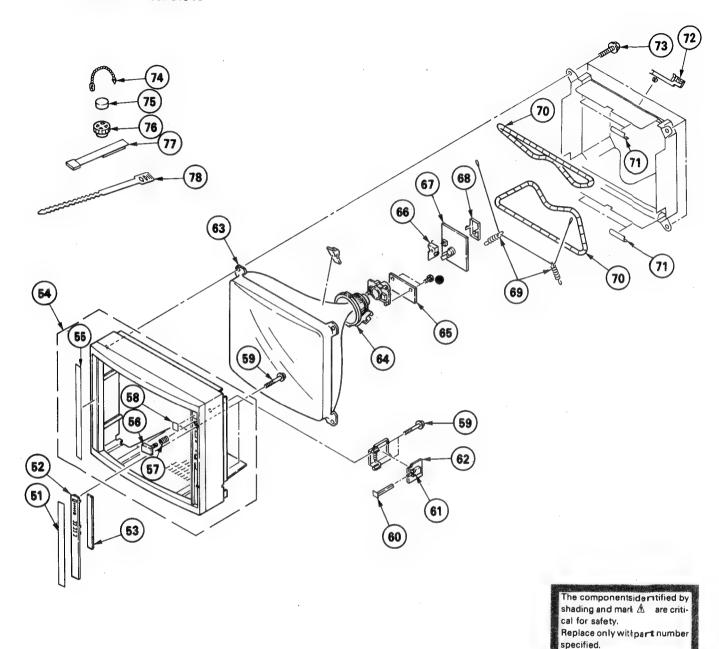
2458

2712



#### 6-2. PICTURE TUBE

• BVTP 3x12 7-685-648-79



REF. NO. PART NO. DESCRIPTION REMARK REF. NO. PART NO. DESCRIPTION REMARK VM BOARD, COMPLETE COVER (MAIN), CV C BOARD, COMPLETE COVER (REAR LID), CV \*A-1342-071-A \*4-379-167-01 \*A-1330-901-A \*4-379-160-01 4-369-318-00 4-390-734-01 51 52 53 54 55 57 58 59 60 LABEL (B) (R) 4-390-734-01 4-390-714-01 \*1-627-728-11 X-4390-701-1 4-390-704-01 2-666-528-00 BRACKET, H PC BOARD H BOARD 66 67 68 BEZNET ASSY LABEL (L) BUTTON, POWER 55-58 SPRING, TENSION 69 COIL, DEMAGNETIZATION
PACKING, TWEETER
HOLDER, LEAD
SCREW (M), PT
CLIP, LEAD WIRE
MAGNET, DISK: 10MM &
MAGNET, ROTATABLE DISK: 15M &
PERMALLOY ASSY, CONVERGENC!
RAND RINDING **1-426-398-11 4-860-518-11 4-387-216-01 4-373-263-11** 70 71 4-390-704-01 BUTION, PUWER
3-666-528-00 SPRING, COMPRESSION
4-390-732-01 LABEL (A) (R)
4-390-705-01 SCREW, SPECIAL (+PW4X30)
4-390-705-01 SHAFT, BUTTON
1-571-433-11 SWITCH, PUSH (AC POWER)

1-627-734-11 F1 BOARD
8-733-821-05 PICTUR ETUBE (A68JYKIOX)
1-451-333-11 DEFLECTION YOKE (SY-191B) 3-666-528-00 4-390-732-01 4-319-520-11 4-390-705-01 72 73 74 75 76 77 78 4-308-870-00 61 A. 1-571-433-11 62 \*1-627-734-11 1-452-032-00 1-452-094-00 X-4309-608-0 3-701-007-00 BAND, BINDING

#### **SECTION 7 ELECTRICAL PARTS LIST**



NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS COILS • MMH : InH, UH : μH • MF : µF, PF : µµF

RESISTORS

- All resistors are in ohms
   F: nonflammable

	O. PART NO.	DESCRIPTION	N -		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
	*A-1135-521-A		PLETE			C346 C347 C348 C349	1-136-153-00 1-130-479-00 1-124-499-11 1-136-153-00	MYLAR MYLAR	0.01MF 0.0047MF 1MF 0.01MF	10% 10% 20% 10%	50V 50V 50V 50V
C001 C002 C003 C004 C005	1-124-477-11 1-102-129-00 1-102-824-00 1-124-477-11	CERAMIC CERAMIC ELECT	47MF 0.01MF 470PF 47MF 15PF	20% 10% 5% 20% 5%	16V 50V 50V 16V 50V	C350 C351 C352 C353 C354	1-124-927-11 1-124-499-11 1-124-927-11 1-130-481-00 1-130-476-00	ELECT ELECT Mylar	4.7MF 1MF 4.7MF 0.0068MF 0.0027MF	20% 20% 20% 10% 10%	50V 50V 50V 50V 50V
C006 C007 C009 C010 C011	1-102-947-00 1-130-477-00 1-124-927-11 1-124-927-11		10PF 0.0033MF 4.7MF 4.7MF 4.7MF	0.5PF 10% 20% 20% 20%	50V 50V 50V 50V 50V	C355 C401 C402 C403 C404	1-130-477-00 1-126-320-11 1-126-320-11 1-126-320-11 1-124-477-11	ELECT ELECT	0.0033MF 10MF 10MF 10MF 47MF	10% 20% 20% 20% 20% 20%	50V 16V 16V 16V 16V
C012 C013 C014 C015 C016	1-124-927-11 1-101-361-00 1-136-165-00 1-136-165-00	ELECT CERAMIC FILM FILM CERAMIC	4.7MF 150PF 0.1MF 0.1MF 270PF	20% 5% 5% 5% 5%	50V 50V 50V 50V 50V	C406 C407 C408 C409 C410	1-136-165-00 1-136-165-00 1-136-165-00 1-123-875-11 1-124-477-11	FILM FILM ELECT ELECT	0.1MF 0.1MF 0.1MF 10MF 47MF	5% 5% 5% 20% 20%	50V 50V 50V 50V 16V
C017 C018 C019 C021 C022	1-124-477-11 1-124-360-00	ELECT ELECT ELECT ELECT ELECT	1000MF 100MF 47MF 1000MF 4.7MF	20% 20% 20% 20% 20%	16V 25V 16V 16V 50V	C415 C416 C417 C418 C419	1-136-165-00 1-136-165-00 1-136-165-00 1-124-463-00 1-124-477-11	FILM FILM ELECT ELECT	0.1MF 0.1MF 0.1MF 0.1MF 47MF	5% 5% 5% 20% 20%	50V 50V 50V 50V 16V
C027 C028 C029 C030 C031		ELECT CERAMIC MYLAR CERAMIC ELECT	10MF 0.01MF 0.0033MF 270PF 10MF	20% 10% 10% 20%	50V 50V 50V 50V 50V	C420 C421 C422 C423 C424	1-126-101-11 1-102-953-00 1-123-875-11 1-124-477-11 1-124-477-11	CERAMIC ELECT ELECT	100MF 18PF 10MF 47MF 47MF	20% 5% 20% 20% 20%	16V 50V 50V 16V 16V
C045 C251 C252 C253 C254	1-124-463-00 1-102-074-00 1-124-927-11 1-124-910-11 1-136-165-00	ELECT CERAMIC ELECT ELECT FILM	0.1MF 0.001MF 4.7MF 47MF 0.1MF	20% 10% 20% 20% 5%	50V 50V 50V 50V 50V	C427 C432 C434 C435 C4001	1-123-875-11 1-123-875-11 1-124-477-11 1-124-477-11 1-123-875-11	ELECT ELECT	10MF 10MF 47MF 47MF 10MF	20% 20% 20% 20% 20% 20%	50V 50V 16V 16V 50V
C255 C256 C261 C262 C263	1-126-105-11 1-136-167-00 1-102-074-00 1-124-927-11 1-124-910-11	ELECT FILM CERAMIC ELECT ELECT	1000MF 0.15MF 0.001MF 4.7MF 47MF	20% 5% 10% 20%	35V 50V 50V 50V 50V	C4004 C4005	1-126-101-11 1-124-902-00 1-124-902-00 1-124-902-00 1-124-464-11	ELECT ELECT ELECT	100MF 0.47MF 0.47MF 0.47MF 0.22MF	20% 20% 20% 20% 20%	16V 50V 50V 50V 50V
C264 C265 C266 C271 C272	1-136-165-00	FILM ELECT FILM ELECT ELECT	0.1MF 1000MF 0.15MF 100MF 470MF	5% 20% 5% 20% 20%	50V 35V 50V 50V 50V	C4008 C4009 C4010	1-124-464-11 1-124-464-11 1-102-816-00 1-102-959-00 1-126-233-11	ELECT CERAMIC	0.22MF 0.22MF 120PF 22PF 22MF	20% 20% 5% 5% 20%	50V 50V 50V 50V 50V
C273 C340 C341 C342 C344	1-136-165-00 1-124-477-11 1-136-157-00 1-130-471-00 1-130-471-00	FILM ELECT MYLAR MYLAR MYLAR	0.1MF 47MF 0.022MF 0.001MF 0.001MF	5% 20% 10% 10% 10%	50V 16V 50V 50V 50V	C4013 C4014 C4015	1-136-165-00 1-101-884-00 1-136-153-00 1-102-978-00 1-123-875-11	FILM CERAMIC MYLAR CERAMIC ELECT	0.1MF 56PF 0.01MF 220PF 10MF	5% 10% 5% 20%	50V 50V 50V 50V 50V
C345	1-136-169-00		0.22MF	5%	50 <b>V</b>	C4017 C4018		CERANIC ELECT	0.01MF 1MF	20%	50 <b>V</b> 50 <b>V</b>

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.



REF.NO. PART NO.	DESCRIPTION	REMARK	REF. NO. PART NO. DESCRIPTION	REMARK
C4019 1-101-004-00 C4020 1-123-875-11 C4021 1-124-477-11 C4022 1-124-499-11 C4023 1-102-112-00	ELECT 10MF 20% ELECT 47MF 20%	50V 50V 16V 50V 50V	D407 8-719-109-81 D10DE RD4.7ES-B2 D408 8-719-911-19 D10DE 1SS119 D411 8-719-911-19 D10DE 1SS119 D412 8-719-911-19 D10DE 1SS119 D413 8-719-911-19 D10DE 1SS119	
C4024 1-126-101-11 C4030 1-124-499-11 C4031 1-124-499-11 C4032 1-124-499-11	ELECT 1MF 20% ELECT 1MF 20%	16V 50V 50V 50V	D415 8-719-911-19 D10DE 1SS119 D416 8-719-911-19 D10DE 1SS119 D417 8-719-911-19 D10DE 1SS119 D4001 8-719-911-19 D10DE 1SS119 D4002 8-719-911-19 D10DE 1SS119	
<fil< td=""><td>TER&gt;</td><td></td><td>D4003 8-719-911-19 DIODE 1SS119</td><td></td></fil<>	TER>		D4003 8-719-911-19 DIODE 1SS119	
CF001 1-567-686-11	OSCILLATOR, CERAMIC		D4029 8-719-911-19 DIODE ISS119 D4030 8-719-911-19 DIODE ISS119	
<con< td=""><td>NECTOR&gt;</td><td></td><td>&lt;1C&gt;</td><td></td></con<>	NECTOR>		<1C>	
CNB01 *1-564-511-11 CNB02 *1-564-508-11 CNB03 *1-566-367-11 CNB11 *1-566-660-11 CNB13 *1-564-881-11	PLUG, CONNECTOR 8P PLUG, CONNECTOR 5P CONNECTOR, HINGE (RECEPTACLE) CONNECTOR, HINGE (PLUG) 18P PLUG, CONNECTOR 4P		C C>   IC001	
CNB21 *1-566-367-11 CNB23 *1-564-511-11 CNB31 *1-565-501-11 CNB32 *1-565-501-11 CNB33 *1-564-509-11	CONNECTOR, HINGE (RECEPTACLE) PLUG, CONNECTOR 8P CONNECTOR, BOARD TO BOARD 10P CONNECTOR, BOARD TO BOARD 10P PLUG, CONNECTOR 6P		*4-391-704-01 HOLDER (A), TR; ICO05 IC251 8-759-803-31 IC LA4280 *4-368-683-01 SPRING; IC521 IC341 8-759-946-99 IC TDA2595-V7	
CNB41 *1-565-394-11	PIN. BOARD TO BOARD CONNECTOR PIN, BOARD TO BOARD CONNECTOR CONNECTOR, BOARD TO BOARD 18P CONNECTOR, BOARD TO BOARD 18P PIN, CONNECTOR (5MM PITCH) 2P		IC381 8-759-240-40	
CNB62 *1-564-507-11 CNB63 *1-564-509-11 CNB81 *1-564-513-11	PLUG, CONNECTOR 6P PLUG, CONNECTOR 10P		IC4003 8-759-701-00 IC NJM7809A	
CNB83 *1-564-506-11 CNB89 *1-564-882-11	PLUG, CONNECTOR 3P		<coil></coil>	
D002 8-719-911-19	DIODE RD3.9ES-L1 DIODE 1SS119		L001 1-410-478-11 INDUCTOR 47UH L002 1-410-471-11 INDUCTOR 12UH L003 1-408-225-00 INDUCTOR 3.3UH L027 1-410-478-11 INDUCTOR 47UH L4001 1-408-411-00 INDUCTOR 15UH	
D004 8-719-911-19	DIODE 155119 DIODE 155119 DIODE 155119		<ic link=""></ic>	
	DIODE 1SS119		PS001&1-532-637-91 LINK, IC	
D007 8-719-110-80 D008 8-719-911-19	DIODE RD33ES-B4 DIODE 1SS119		<transistor></transistor>	
D009 8-719-911-19 D011 8-719-911-19	DIODE 1SS119 DIODE 1SS119		Q001 8-729-117-54 TRANSISTOR 2SA1175	
D271 8-719-110-14 D341 8-719-911-19 D342 8-719-911-19	DIODE 1SS119 DIODE RD9, 1ES-B3 DIODE 1SS119 DIODE 1SS119		Q002 8-729-178-54 TRANSISTOR 2SC2785 Q003 8-729-117-54 TRANSISTOR 2SA1175 Q004 8-729-117-54 TRANSISTOR 2SA1175 Q005 8-729-900-65 TRANSISTOR DTA144ES	
D344 8-719-120-14 D347 8-719-911-19	DIODE RD3.9ES-L1 DIODE 1SS119		Q271 8-729-900-36 TRANSISTOR DTC124ES Q340 8-729-178-54 TRANSISTOR 2SC2785	
D348 8-719-911-19 D371 8-719-936-83	DIODE 155119 DIODE GPO8DPKG23 DIODE 155119 DIODE RD7.5ES-B3		Q341 8-729-178-54 TRANSISTOR 2SC2785 Q342 8-729-178-54 TRANSISTOR 2SC2785 Q343 8-729-178-54 TRANSISTOR 2SC2785 Q344 8-729-178-54 TRANSISTOR 2SC2785	
D402 8-719-110-04 D403 8-719-110-04 D404 8-719-911-19	DIODE RD7.5ES-B3 DIODE RD7.5ES-B3		Q345	
D406 8-719-911-19	DIODE 155119		Q383 8-729-900-89 TRANSISTOR DTC144ES Q401 8-729-178-54 TRANSISTOR 25C2785	



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
\(\begin{array}{cccccccccccccccccccccccccccccccccccc	DESCRIPTION  TRANSISTOR 2SC2785		R031 R032 R033 R037 R038	1-249-429-11 1-249-429-11 1-249-429-11 1-249-417-11 1-249-417-11		10K 10K 10K 1K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q407 8-729-178-54 Q408 8-729-117-54 Q409 8-729-178-54 Q410 8-729-178-54 Q411 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R039 R040 R041 R042 R043	1-249-417-11 1-249-417-11 1-249-417-11 1-249-417-11 1-249-413-11	CARBON CARBON CARBON CARBON		5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q412 8-729-178-54 Q415 8-729-178-54 Q418 8-729-178-54 Q419 8-729-178-54 Q420 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SC2785		RO44 RO45 RO46 RO47 RO48	1-249-413-11 1-249-411-11 1-249-429-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON CARBON	470 330 10K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q421 8-729-117-54 Q422 8-729-178-54 Q423 8-729-178-54 Q424 8-729-178-54 Q425 8-729-178-54	TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R049 R050 R051 R052 R053	1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	10K 10K 10K 10K 10K	5%% 5%% 5%% 5%%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q431 8-729-178-54 Q4001 8-729-178-54 Q4004 8-729-177-54 Q4005 8-729-178-54 Q4006 8-729-178-54	TRANSISTOR 25C2785 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R054 R055 R056 R057 R058	1-249-413-11 1-249-413-11 1-249-429-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	470 470 10K 10K 10K	5%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W	
Q4007 8-729-178-54 Q4008 8-729-178-54 Q4009 8-729-178-54 Q4011 8-729-600-12 Q4019 8-729-178-54	TRANSISTOR 25C2785 TRANSISTOR 25C2785 TRANSISTOR 25C2785 TRANSISTOR 25K108 TRANSISTOR 25K108 TRANSISTOR 25C2785		R059 R060 R061 R062 R063	1-249-417-11 1-249-417-11 1-249-413-11 1-249-423-11 1-249-435-11	CARBON CARBON CARBON CARBON CARBON	1K 1K 470 3.3K 33K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q4024 8-729-600-12 Q4027 8-729-117-54 Q4028 8-729-178-54 Q4029 8-729-178-54 Q4033 8-729-900-36	TRANSISTOR 2SATUS TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR DTC124ES		R064 R065 R066 R067 R068	1-249-441-11 1-249-425-11 1-249-425-11 1-249-425-11 1-249-431-11	CARBON CARBON CARBON CARBON CARBON	100K 4.7K 4.7K 4.7K 4.7K 15K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q4045 8-729-900-63 <res< td=""><td>TRANSISTUR DTA124ES</td><td></td><td>R069 R070 R071 R072</td><td>1-249-429-11 1-249-421-11 1-249-413-11 1-249-413-11 1-249-417-11</td><td></td><td></td><td></td><td>1/4W 1/4W 1/4W 1/4W</td><td></td></res<>	TRANSISTUR DTA124ES		R069 R070 R071 R072	1-249-429-11 1-249-421-11 1-249-413-11 1-249-413-11 1-249-417-11				1/4W 1/4W 1/4W 1/4W	
R001 1-249-413-11 R002 1-249-431-11 R003 1-249-425-11 R005 1-249-429-11 R007 1-249-429-11	CARBON 470 5% 1/4W CARBON 15K 5% 1/4W CARBON 4.7K 5% 1/4W CARBON 10K 5% 1/4W CARBON 10K. 5% 1/4W		R073 R074 R076 R077 R078	1-249-417-11 1-249-427-11 1-249-437-11 1-249-437-11 1-249-437-11		1K 6.8K 47K 47K 47K		1/4W 1/4W 1/4W 1/4W 1/4W	
R0109 1-249-429-11 R010 1-249-429-11 R011 1-249-429-11 R012 1-249-429-11	CARBON 10K 5% 1/4W CARBON 10K 5% 1/4W CARBON 10K 5% 1/4W CARBON 10K 5% 1/4W		R082 R083 R084 R251	1-249-429-11 1-249-429-11 1-249-417-11 1-249-429-11 1-249-419-11	CARBON CARBON CARBON CARBON CARBON	10K 10K 1K 10K 1.5K	5% 5% 5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R013 1-249-429-11 R014 1-249-429-11 R015 1-249-425-11 R016 1-249-417-11 R017 1-249-419-11	CARBON 10K 5% 1/4W CARBON 10K 5% 1/4W CARBON 4.7K 5% 1/4W CARBON 1K 5% 1/4W CARBON 1.5K 5% 1/4W CARBON 1.5K 5% 1/4W		R252 R253 R254 R261 R262	1-249-405-11 1-249-385-11 1-249-419-11 1-249-423-11	CARBON CARBON CARBON CARBON CARBON	3.3K 100 2.2 1.5K 3.3K	5% 5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	F
R019 1-249-432-11 R020 1-249-439-11 R021 1-249-429-11 R022 1-249-429-11 R023 1-249-429-11	CARBON 18K 5% 1/4W CARBON 68K 5% 1/4W CARBON 10K 5% 1/4W CARBON 10K 5% 1/4W CARBON 10K 5% 1/4W CARBON 10K 5% 1/4W		R263 R264 R271 R272 R273	1-249-405-11 1-249-385-11 1-249-413-11 1-249-429-11 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	100 2.2 470 10K 1K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F
R024 1-249-438-11 R025 1-249-429-11 R026 1-249-429-11 R029 1-249-429-11 R030 1-249-431-11	CARBON 56K 5% 1/4W CARBON 10K 5% 1/4W CARBON 10K 5% 1/4W CARBON 10K 5% 1/4W CARBON 15K 5% 1/4W		R340 R341 R342 R343	1-249-431-11 1-249-425-11 1-247-891-00 1-249-417-11	CARBON CARBON CARBON CARBON	15K 4.7K 330K 1K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R344 R345 R346 R347	1-249-425-11 1-249-429-11 1-249-425-11 1-249-417-11	CARBON CARBON CARBON CARBON	4.7K 10K 4.7K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R433 R434 R437	1-249-411-11 1-249-409-11 1-249-429-11	CARBON	330 220 10K		1/4W 1/4W 1/4W	
R348 R349	1-249-437-11 1-249-429-11	CARBON CARBON	47K 10K		1/4W 1/4W		R438 R439 R440	1-249-427-11 1-249-413-11 1-249-409-11	CARBON CARBON CARBON	6.8K 470 220	5% 5% 5% 5%	1/4W 1/4W 1/4W	
R350 R351 R352 R353	1-249-433-11 1-249-423-11 1-247-883-00	CARBON CARBON CARBON CARBON	22K 3.3K 150K 820	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R441 R442 R443 R444	1-249-417-11 1-249-417-11 1-249-417-11 1-249-429-11	CARBON CARBON CARBON CARBON	1 K 1 K 1 K 1 O K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	,
R354 R355 R356 R357 R358	1-249-415-11 1-249-437-11 1-249-441-11 1-247-881-00 1-249-430-11	CARBON CARBON CARBON CARBON CARBON	680 47K 100K 120K 12K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R445 R446 R453 R456	1-249-427-11 1-249-417-11 1-249-413-11 1-249-417-11	CARBON CARBON	6.8K 1K 470 1K	5% 5% 5% 5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R360 R361	1-249-425-11 1-249-423-11	CARBON CARBON	4.7K 3.3K		1/4W 1/4W		R460 R461	1-249-413-11 1-249-413-11	CARBON CARBON	470 470		1/4W 1/4W	
R362 R363 R364 R365	1-249-433-11 1-249-433-11 1-249-418-11	CARBON CARBON CARBON	22K 22K 1.2K	5% 5% 5% 5%	1/4W 1/4W 1/4W		R462 R463 R466 R467	1-249-413-11 1-249-413-11 1-249-417-11 1-249-425-11	CARBON CARBON CARBON	470 470 1K 4.7K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R366 R367 R368 R369	1-249-425-11 1-249-417-11 1-249-421-11 1-249-429-11 1-249-425-11	CARBON CARBON CARBON CARBON CARBON	4.7K 1K 2.2K 10K 4.7K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R468 R470 R471 R473	1-249-415-11 1-249-425-11 1-249-415-11 1-249-425-11	CARBON	680 4.7K 680 4.7K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R370 R371	1-249-413-11 1-249-405-11	CARBON CARBON	470		1/4W 1/4W		R474 R476	1-249-415-11 1-249-417-11	CARBON	680 1K	5% 5%	1/4W 1/4W	
R372 R373 R374	1-249-405-11 1-249-417-11 1-249-431-11	CARBON CARBON CARBON	100 1K 15K	5% 5% 5% 5%	1/4W 1/4W 1/4W		R477 R478 R479 R480	1-249-441-11 1-249-429-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON CARBON	100K 10K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R375 R376 R377	1-249-435-11 1-249-419-11 1-249-421-11	CARBON CARBON CARBON	33K 1.5K 2.2K 2.7K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W		R481	1-249-407-11 1-249-417-11	CARBON	150 1K		1/4W	
R378 R381 R404	1-249-422-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	10K		1/4W 1/4W 1/4W		R483 R484 R489 R490	1-249-417-11 1-249-433-11 1-247-891-00 1-247-891-00	CARBON CARBON CARBON CARBON	1K 22K 330K 330K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/4W 1/4W 1/4W 1/4W	
R405 R406 R407 R408	1-249-429-11 1-249-417-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON CARBON	10K 1K 10K 10K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R491 R4001 R4002 R4003	1-249-417-11 1-249-436-11 1-249-437-11 1-249-432-11	CARBON CARBON	1K 39K 47K 18K	5555555	1/4W 1/4W 1/4W 1/4W	
R409 R410 R411	1-249-417-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	1 K 10 K 10 K	5% 5% 5%	1/4W 1/4W 1/4W		R4004 R4005	1-249-436-11	CARBON	39K		1/4W 1/4W	
R412 R413 R414	1-249-417-11 1-249-403-11 1-249-403-11	CARBON CARBON	1 K 68	5% 5% 5%	1/4W 1/4W 1/4W		R4006 R4007 R4008 R4009	1-249-435-11 1-249-421-11 1-249-421-11 1-249-421-11	CARBON CARBON CARBON CARBON	33K 33K 2.2K 2.2K 2.2K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R415 R416 R417 R418	1-249-403-11 1-249-419-11 1-249-411-11 1-249-419-11	CARBON CARBON CARBON CARBON	68 1.5K 330 1.5K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		R4010 R4011 R4012 R4014	1-249-436-11 1-249-417-11 1-249-417-11 1-249-441-11	CARBON CARBON CARBON CARBON	39K 1K 1K 1OOK	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R419 R420 R421	1-249-411-11 1-249-419-11 1-249-411-11	CARBON CARBON CARBON	330 1.5K 330	5% 5% 5%	1/4W 1/4W 1/4W			1-249-441-11	CARBON	100K	5%	1/4W 1/4W	
R422 R423	1-249-429-11 1-249-429-11	CARBON CARBON	10K 10K	5% 5%	1/4W 1/4W		R4017 R4018 R4019	1-249-425-11 1-247-895-00 1-249-424-11	CARBON CARBON CARBON	4.7K 470K 3.9K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
R424 R425 R426 R427	1-249-421-11 1-247-804-11 1-249-409-11	CARBON CARBON CARBON CARBON	2.2K 75 220	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W		R4020	1-249-429-11	CARBON CARBON	10K		1/4W 1/4W 1/4W	
R428 R429	1-249-425-11 1-249-425-11 1-249-429-11	CARBON	4.7K 4.7K 10K		1/4W 1/4W 1/4W			1-249-405-11 1-249-405-11 1-249-405-11 1-249-415-11	CARBON CARBON CARBON CARBON	100 100 100 680	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R430 R431 R432	1-249-413-11 1-249-413-11 1-249-425-11	CARBON CARBON CARBON	470 470 4.7K	5% 5% 5% 5%	1/4W 1/4W 1/4W		R4026	1-247-891-00 1-249-429-11	CARBON CARBON	330K 10K	5% 5%	1/4W 1/4W	





REF. NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTI	ON 		REMARK
R4028 1 249-417 11 R4029 1-249-434-11 R4030 1-249-414-11 R4031 1-249-417-11 R4032 1-249-424-11	CARBON CARBON	1K 5% 27K 5% 560 5% 1K 5% 3.9K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3039 C3040 C3043	1-101-361-00 1-102-951-00 1-101-361-00 1-102-971-00	CERAMIC CERAMIC CERAMIC	150PF 15PF 150PF 82PF	5% 5% 5% 5%	50V 50V 50V 50V
R4033 1-249-411-11 R4034 1-249-409-11 R4035 1-249-417-11 R4036 1-249-421-11 R4037 1-249-425-11	CARBON CARBON	330 5% 220 5% 1K 5% 2.2K 5% 4.7K 5%	1/4W 1/4W 1/4W 1/4W		C3076 C3077	1-124-963-11 1-124-477-11 1-101-361-00 1-124-477-11	ELECT CERAMIC ELECT	33MF 47MF 150PF 47MF	20% 20% 5% 20%	16V 16V 50V 16V
R4038 1-249-441-11 R4039 1-249-433-11 R4040 1-249-441-11 R4041 1-249-425-11 R4042 1-249-441-11		100K 5% 22K 5% 100K 5% 4.7K 5% 100K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		CNB131 CNB132	*1-565-486-11 *1-565-486-11	CONNECTOR,	BOARD TO BO	ARD 10P ARD 10P	
R4043 1-249-429-11 R4045 1-249-425-11 R4046 1-249-419-11	CARBON	10K 5% 4.7K 5% 1.5K 5%	1/4W 1/4W 1/4W		CT3001 CT3002	1-141-181-11 1-141-181-11	MMER> CAP, TRIMMER CAP, TRIMMER	R		
<var< td=""><td>TABLE RESISTOR</td><td>&gt;</td><td></td><td></td><td></td><td>&lt;010</td><td>DE&gt;</td><td></td><td></td><td></td></var<>	TABLE RESISTOR	>				<010	DE>			
RV341 1-228-996-00 RV4001 1-228-996-00	RES, ADJ, CAR	BON 47K	******		D3002 D3003	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 18811 DIODE 18811	19 19		
*A-1135-526-A	B1 BOARD, COM	PLETE *****			D3005 D3010	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 18811 DIODE 18811	[9 [9		
*4-376-533-01 *4-376-534-01 *4-376-535-01	CASE (MAIN), CASE (UPPER), CASE (BOTTOM)	SHIELD SHIELD , SHIELD		-	DI 2001		AY LINE>			
<f11.< td=""><td>TER&gt;</td><td></td><td></td><td></td><td></td><td>1-415-122-00 1-415-613-11</td><td></td><td>Y</td><td></td><td></td></f11.<>	TER>					1-415-122-00 1-415-613-11		Y		
BP3001 1-235-835-11		PASS				<ic></ic>				
	ACITOR>					8-759-947-20 8-752-006-10		V8		
C3003 1-101-888-00 C3004 1-102-816-00	CERAMIC CERAMIC CERAMIC	220PF 220PF 68PF 120PF 18PF	5% 5% 5%	50V 50V 50V 50V 50V	L3002	<01 1-404-554-11 1-404-554-11	COIL			
C3006 1-102-953-00 C3007 1-102-816-00 C3008 1-101-888-00 C3009 1-101-004-00	CERAMIC CERAMIC	18PF 120PF 68PF 0.01MF	5% 5%	50V 50V 50V 50V	L3004	1-404-539-11 1-408-408-00 1-404-554-11 1-408-429-00	INDUCTOR COIL	8.2UH 470UH		
C3010 1-136-153-00 C3011 1-136-157-00	MYLAR	0.01MF 0.022MF	10%	50V 50V	L3007 L3008	1-404-495-00 1-410-476-11	COIL INDUCTOR	33UH		
C3012 1-136-165-00 C3013 1-124-119-00 C3014 1-124-499-11 C3015 1-124-499-11	MYLAR ELECT ELECT	0.022MF 0.1MF 330MF 1MF 1MF	10% 20% 20%	50V 50V 16V 50V 50V	L3010 L3012 L3013	1-404-495-00 1-408-423-00 1-408-423-00 1-410-482-31	COIL INDUCTOR INDUCTOR INDUCTOR	150UH 150UH 100UH		
C3016 1-136-161-00 C3017 1-136-173-00 C3018 1-101-006-00 C3019 1-136-157-00	FILM CERAMIC	0.047MF 0.47MF 0.047MF 0.022MF	5%	50V 50V 50V 50V	L3093	1-408-406-00 <tra< td=""><td>INDUCTOR NSISTOR&gt;</td><td>5.6UH</td><td></td><td></td></tra<>	INDUCTOR NSISTOR>	5.6UH		
C3020 1-136-157-00 C3021 1-102-074-00 C3023 1-102-074-00 C3024 1-101-004-00	CERAMIC CERAMIC CERAMIC	0.022MF 0.001MF 0.001MF 0.01MF	10% 10% 10%	50V 50V 50V 50V	Q3002 Q3003 Q3004	8-729-178-54 8-729-178-54 8-729-900-36 8-729-178-54 8-729-900-36	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2785 DTC124ES 2SC2785		
C3025 1-101-004-00 C3031 1-124-963-11 C3032 1-124-120-11	ELECT	0.01MF 33MF 220MF	20%	50V 16V 16V	Q3008		TRANSISTOR TRANSISTOR TRANSISTOR	DTC124ES		

The components identified by shading and mark  $ilde{\Lambda}$  are critical for safety.
Replace only with part number specified.

B1 F1 F2

REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION			REMARK
Q3013 8-729-178-54 Q3020 8-729-178-54 Q3021 8-729-178-54 Q3025 8-729-178-54 Q3026 8-729-900-36	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR DTC124ES		R3085 1-249-417-11 R3086 1-249-435-11 R3087 1-249-416-11 R3088 1-249-414-11	CARBON 33 CARBON 82 CARBON 56	K 5% 3K 5% 20 5% 60 5%	1/4W 1/4W 1/4W	
Q3027 8-729-178-54 Q3028 8-729-178-54 Q3031 8-729-178-54 Q3032 8-729-117-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R3089 1-249-417-11 R3090 1-249-410-11 R3091 1-249-413-11 R3092 1-249-412-11	CARBON 27 CARBON 47 CARBON 39	K 5% 70 5% 70 5% 90 5%	1/4W 1/4W 1/4W 1/4W	
<res< td=""><td>SISTOR&gt;</td><td></td><td>R3093 1-249-409-11 R3094 1-249-417-11</td><td></td><td>20 5% K 5%</td><td>1/4W 1/4W</td><td></td></res<>	SISTOR>		R3093 1-249-409-11 R3094 1-249-417-11		20 5% K 5%	1/4W 1/4W	
R3001 1-249-418-11 R3002 1-249-415-11 R3003 1-249-408-11 R3004 1-249-412-11 R3005 1-249-418-11		1/4W 1/4W 1/4W 1/4W 1/4W	RV3001 1-230-504-11		N 220		
R3006 1-249-429-11 R3007 1-215-438-00 R3008 1-249-439-11	CARBON 10K 5% METAL 5.1K 1% CARBON 68K 5% CARBON 12K 5% CARBON 68K 5%	1/4W 1/6W 1/4W	T3001 1-404-584-11	NSFORMER> COIL			
R3009 1-249-430-11 R3011 1-249-439-11	CARBON 12K 5% CARBON 68K 5%	1/4W 1/4W	< CRY	STAL>			
R3012 1-249-414-11 R3013 1-249-433-11 R3015 1-249-437-11 R3017 1-249-441-11	CARBON 22K 5% CARBON 47K 5% CARBON 100K 5%	1/4W 1/4W 1/4W 1/4W	X3001 1-567-131-00 X3002 1-567-413-11	VIBRATOR, CRYSTA	AL	******	******
R3018 1-249-419-11 R3019 1-249-410-11 R3020 1-249-416-11 R3021 1-249-417-11	CARBON 1.5K 5%  CARBON 270 5% CARBON 820 5% CARBON 1K 5% CARBON 270 5% CARBON 3.3K 5%	1/4W 1/4W 1/4W 1/4W	*1-627-734-11	F1 BOARD			
R3022 1-249-410-11 R3023 1-249-423-11	-	1/4W 1/4W	<con< td=""><td>NECTOR&gt; PIN. CONNECTOR 4</td><td>4P</td><td></td><td></td></con<>	NECTOR> PIN. CONNECTOR 4	4P		
R3024 1-249-405-11 R3025 1-249-435-11 R3026 1-249-416-11 R3027 1-249-436-11 R3028 1-249-419-11	CARBON 33K 5% CARBON 820 5% CARBON 39K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		TCH>			
R3029 1-249-436-11 R3030 1-249-435-11 R3031 1-249-419-11 R3032 1-249-414-11 R3033 1-249-435-11	CARBON 33K 5% CARBON 1.5K 5% CARBON 560 5%	1/4W 1/4W 1/4W 1/4W 1/4W	**************************************	**************************************	ETE	******	*****
R3034 1-249-436-11 R3035 1-249-436-11 R3037 1-249-429-11 R3038 1-249-429-11 R3039 1-249-419-11	CARBON 39K 5% CARBON 39K 5% CARBON 10K 5% CARBON 10K 5% CARBON 1.5K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	<cap< p=""> C1601♠ 1-136-519-11 C1602♠ 1-136-518-11 C1604♠ 1-161-964-61</cap<>	FILM 0.3	17MF 13MF 1047MF	20%	300V 300V 250V
R3040 1-249-421-11 R3048 1-249-434-11 R3049 1-249-405-11 R3056 1-247-893-11 R3057 1-247-893-11	CARBON 2.2K 5% CARBON 27K 5% CARBON 100 5% CARBON 390K 5% CARBON 390K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	C1605A 1-161-964-61 C1606 1-162-599-12 C1607 1-125-318-00 C1608A 1-162-578-51 C1609A 1-162-578-51	CERAMIC 0.0 CERAMIC 0.0 ELECT (BLOCK) 220 CERAMIC 0.0	0047MF 0047MF 0MF 0047MF	20% 20%	250V 250V 400V 400V
R3058 1-249-409-11 R3061 1-249-421-11 R3062 1-249-421-11	CARBON 220 5% CARBON 2.2K 5% CARBON 2.2K 5%	1/4W 1/4W 1/4W	C1610A 1-162-578-51 C1611A 1-162-578-51 C1612 1-124-556-11	CERAMIC 0.0 CERAMIC 0.0 ELECT 220	1047MF 1047MF 1047MF 10MF	202 202 202	400V 400V 400V
R3063 1-249-401-11 R3064 1-249-433-11 R3065 1-249-433-11		1/4W 1/4W 1/4W	C1613 1-124-911-11 C1614 1-123-875-11 C1615 1-124-473-11 C1616 1-124-477-11	ELECT 220 ELECT 10M ELECT 100 ELECT 47M	OMF IF OOMF	20% 20% 20%	50V 50V 10V 16V
R3071 1-249-423-11 R3072 1-249-423-11 R3075 1-249-437-11 R3076 1-249-437-11	CARBON         22K         5%           CARBON         3.3K         5%           CARBON         3.3K         5%           CARBON         47K         5%           CARBON         47K         5%	1/4W 1/4W 1/4W 1/4W	C1617 1-124-499-11 C1618 1-124-477-11 C1621 1-126-101-11 C1622 1-126-101-11	ELECT 1MF ELECT 47M ELECT 1000	IF IMF	20% 20%	50V 16V 16V 16V
R3077 1-249-441-11 R3081 1-249-441-11	CARBON 100K 5% CARBON 100K 5%	1/4W 1/4W	C1623 1-126-176-11	ELECT 100 ELECT 220			10V 10V

F2 Q

The components identified by shading and mark  $ilde{\mathbb{A}}$  are critical for safety.
Replace only with part number specified.

REF. NO. PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTIO	DN 		REMARK
<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td><tra< td=""><td>INSFORMER&gt;</td><td></td><td></td><td></td></tra<></td></con<>	NECTOR>			<tra< td=""><td>INSFORMER&gt;</td><td></td><td></td><td></td></tra<>	INSFORMER>			
CNF20 *1-566-664-11 CNF21 *1-566-664-11 CNF22 *1-564-891-11 CNF63 *1-564-509-11 CNF64 *1-508-766-00	PIN, CONNECTOR 4P PIN, CONNECTOR 4P PLUG, CONNECTOR 2P PLUG, CONNECTOR 6P PIN, CONNECTOR (5MM PITCH) 4	4P	1		RMISTOR>			
CNF65 *1-508-765-00 CNF67 *1-564-506-11	PIN, CONNECTOR (5MM PITCH) 3 PLUG, CONNECTOR 3P	ЗР _	!	A1-808-059-31				
CNF68 *1-508-784-00	PIN, CONNECTOR (5MM PITCH) 2	1 P	!	*A-1275-093-A		MPLETE	*****	******
<010								
D1601 8-719-946-90 D1602 8-719-511-40 D1603 8-719-911-19	DIODE KBU4JL-6088 DIODE S1VB40 DIODE 1SS119			<caf 1-131-381-00</caf 	'ACITOR>	47MF	10%	10V
D1604 8-719-911-19 D1605 8-719-109-97	DIODE ISS119 DIODE RD6.8ES-B2		C1302 C1303	1-101-004-00 1-126-101-11	CERAMIC ELECT	0.01MF 100MF	20%	50V 16V
D1606 8-719-911-19	DIODE 1SS119		C1304 C1305	1-101-004-00 1-131-381-00	CERAMIC TANTALUM	0.01MF 47MF	10%	50V 10V
<fus< td=""><td></td><td></td><td>C1307</td><td>1-101-004-00 1-131-377-00</td><td>TANTALUM</td><td>0.01MF 10MF</td><td>10%</td><td>50V 10V</td></fus<>			C1307	1-101-004-00 1-131-377-00	TANTALUM	0.01MF 10MF	10%	50V 10V
F1601A 1-532-350-11	FUSE, TIME-LAG 4A/250V HOLDER, FUSE; F1601	, en la servición de la companya de	C1309	1-101-004-00 1-131-377-00	TANTALUM	0.01MF 10MF	10%	50V 10V
			C1311	1-101-004-00 1-126-101-11	ELECT	0.01MF 100MF	20%	50V 16V
<10>			C1312	1-101-004-00 1-131-381-00	CERAMIC TANTALUM	0.01MF 47MF	10%	50V 10V
1C1601 8-759-700-06 1C1603 8-749-930-52 4-377-115-01	IC NJM/812B IC SI-3052V SPACER, MICA; IC1603		C1315	1-101-004-00 1-123-875-11	ELECT	0.01MF 10MF	20%	50 <b>V</b> 50 <b>V</b>
*4-391-704-01	HOLDER (A), TR; IC 1603		C1317	1-123-875-11 1-101-004-00	CERAMIC	10MF 0.01MF	20%	50V 50V
< <b>F</b> 1L	TER>		C1319	1-101-004-00 1-101-004-00 1-123-875-11	CERAMIC	0.01MF 0.01MF 10MF	20%	50¥ 50¥ 50¥
LF1601A1-424-183-11 LF1602A1-424-183-11	TRANSFORMER, LINE FILTER TRANSFORMER, LINE FILTER TRANSFORMER, FERRITE		C1321	1-123-875-11	ELECT	10MF	20%	50V
CF1603A1+421-592+00	ATRANSFORMER, FERRITE AND BOOK	es, esperator tradición.	1 (1323	1-101-004-00 1-101-004-00 1-101-004-00	CERAMIC	0.01MF 0.01MF 0.01MF		50¥ 50¥ 50¥
<tra< td=""><td>NSISTOR&gt;</td><td></td><td>C1325</td><td>1-123-875-11</td><td>ELECT</td><td>10MF</td><td>20%</td><td>50V</td></tra<>	NSISTOR>		C1325	1-123-875-11	ELECT	10MF	20%	50V
	TRANSISTOR 2SD795A-Q TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		C1327	1-123-875-11 1-101-004-00	CERAMIC	10MF 0.01MF 0.01MF	20%	50¥ 50¥ 50¥
<b>Q</b> 1003 8-729-178-54	IKANSISIUK 25C2185		C1328 C1329 C1336	1-101-004-00 1-101-004-00 1-131-377-00	CERAMIC CERAMIC TANTALUM	0.01MF 0.01MF 10MF	10%	50V 10V
	ISTOR>	Maria de labasia.	C1337	1-101-004-00	CERAMIC	0.01MF		50V
R1603A 1-205-949-11 R1604A 1-244-945-91 R1606A 1-247-289-11		2 <b>)</b>	C1338 C1339 C1340	1-131-377-00 1-101-004-00 1-123-875-11	TANTALUM CERAMIC ELECT	10MF 0.01MF 10MF	10% 20%	10V 50V 50V
R1607A 1-249-377-51 R1608A 1-249-377-51	CARBON 0.47 5% 1/	4W F 4W F	C1343	1-101-004-00	CERAMIC	0.01MF	20%	507
R1609A 1-249-377-51 R1610 1-249-423-11	CARBON 0.47 5% 1/ CARBON 3.3K 5% 1/	/4W - F /4W	C1344 C1345 C1348	1-101-004-00 1-101-004-00 1-101-004-00	CERAMIC CERAMIC CERAMIC	0.01MF 0.01MF 0.01MF		50V 50V 50V
R1611 1-249-425-11 R1612 1-249-423-11	CARBON 4.7K 5% 1/ CARBON 3.3K 5% 1/	/4W /4W		1-101-004-00 1-101-004-00	CERAMIC CERAMIC	0.01MF 0.01MF		50V 50V
R1613 1-249-421-11 R1615 1-249-421-11	CARBON 2.2K 5% 1/	′4₩ ′4₩	C1353 C1354	1-101-004-00 1-101-004-00	CERAMIC CERAMIC	0.01MF 0.01MF		50V 50V
R1623A 1-205-949-11			C1355 C1356	1-101-004-00 1-101-004-00 1-101-004-00	CERAMIC CERAMIC CERAMIC	0.01MF 0.01MF 0.01MF		50V 50V 50V
<rel< td=""><td></td><td></td><td>C1358</td><td>1-101-004-00</td><td>CERAMIC</td><td>0.01MF</td><td></td><td>50<b>V</b></td></rel<>			C1358	1-101-004-00	CERAMIC	0.01MF		50 <b>V</b>
RY1601A1-515-579-11	RELAY - POPULAY OF TURBER		C1359	1-101-004-00 1-101-004-00	CERAMIC CERAMIC	0.01MF 0.01MF		50V 50V



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REF.NO. PART NO.	DESCRIPT	ION		REMARK	REF.NO.	PART NO.	DESCRIPTI	ON 		REMARK
C1361 1-136-160 C1362 1-124-902	-00 MYLAR -00 ELECT	0.039MF 0.47MF	10% 20%	50V 50V	IC1310	8-752-328-75	IC CXD2001	Q		
C1363 1-124-902 C1364 1-102-074 C1365 1-102-947	-00 ELECT -00 CERAMIC	0.47MF 0.001MF 10PF	20% 10% 0.5PF	50V 50V 50V	IC1312 IC1314	8-759-970-72 8-759-970-72 8-752-328-71	IC CXK1206 IC CXD2000	M 0		
C1366 1-102-973 C1367 1-102-973	-00 CERAMIC	100PF 100PF	5% 5% 5%	50V 50V	IC1316	8-759-914-44 8-759-947-14	IC 74ACO4P	С		
C1368 1-102-973 C1369 1-102-973 C1370 1-101-004	-00 CERAMIC	100PF 100PF 0.01MF	5% 5%	50V 50V 50V	IC1321	8-752-032-93 8-759-205-06 8-759-011-65	IC MC74HC7	4F		
C1371 1-131-377 C1372 1-101-004	-00 CERAMIC	10MF 0.01MF	10%	10V 50V		<00i	L>			
C1373 1-101-004 C1374 1-124-963 C1375 1-124-963	-11 ELECT	0.01MF 33MF 33MF	20% 20%	50V 16V 16V	L1305	1-410-470-11 1-408-397-00	INDUCTOR	10UH 1UH		
C1376 1-124-963 C1385 1-123-875	-11 ELECT -11 ELECT	33MF 10MF	20% 20%	16V 50V	L1307	1-408-397-00 1-410-470-11 1-408-397-00	INDUCTOR INDUCTOR INDUCTOR	1 U H 1 O U H 1 U H		
C1389 1-130-480 C1390 1-124-499	-00 MYLAR	0.0056MF 1MF	10% 20%	50 <b>V</b> 50 <b>V</b>	L1312	1-404-608-11	COIL			
	<connector></connector>						NSISTOR>			
CNQ43 *1-565-494 CNQ44 *1-565-494	-11 CONNECTOR -11 CONNECTOR	, BOARD TO BOAR , BOARD TO BOAR	RD 18P RD 18P		Q1301 Q1302	8-729-178-54 8-729-178-54	TRANSISTOR TRANSISTOR	2SC2785 2SC2785		
	<diode></diode>				Q1305 Q1306		TRANSISTOR TRANSISTOR			
D1301 8-713-300	-00 DIODE 1T3	3			Q1307 Q1308	8-729-178-54	TRANSISTOR	2SC2785		
	<filter></filter>				Q1315	8-729-178-54	TRANSISTUR	2SC2785		
FL1301 1-236-164	-11 ENCAPSULA	TED COMPONENT				<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
FL1302 1-236-129 FL1303 1-236-164 FL1304 1-236-164	-11 ENCAPSULA  -11 ENCAPSULA	TED COMPONENT TED COMPONENT			R1302	1-249-408-11 1-249-408-11	CARBON	180 5% 180 5%	1/4W 1/4W	
FL1305 1-236-071 FL1306 1-236-071		TED COMPONENT TED COMPONENT			R1304	1-249-408-11 1-249-420-11 1-249-420-11	CARBON	180 5% 180 5% 180 5% 1.8K 5% 1.8K 5%	1/4W 1/4W 1/4W	
FL1307 1-236-129 FL1308 1-236-129 FL1309 1-236-164	)-11 ENCAPSULA )-11 ENCAPSULA	TED COMPONENT TED COMPONENT TED COMPONENT			R1306	1-249-420-11 1-249-413-11	CARBON			
FL1310 1-236-129	0-11 ENCAPSULA	TED COMPONENT			R1308 R1309	1-249-421-11 1-249-423-11	CARBON CARBON	2.2K 5% 3.3K 5%	1/4W 1/4W	
FL1311 1-236-164 FL1312 1-236-164 FL1313 1-236-164	I-11 ENCAPSULA I-11 ENCAPSULA	TED COMPONENT TED COMPONENT			R1311	1-249-423-11 1-249-423-11	CARBON			
FL1314 1-236-164 FL1315 1-236-129		TED COMPONENT TED COMPONENT			R1313	1-249-414-11 1-249-414-11 1-249-414-11	CARBON CARBON CARBON	3.3K 5% 560 5% 560 5%	1/4W 1/4W 1/4W	
FL1320 1-236-304 FL1321 1-236-304	1-11 FILTER, L	OW PASS			R1315	1-249-419-11	CARBON	560 5% 1.5K 5%		
FL1322 1-236-304 FL1323 1-236-303 FL1324 1-236-303	3-11 FILTER, L	OW PASS			R1317	1-249-419-11 1-247-901-11 1-249-417-11	CARBON CARBON CARBON	1.5K 5% 820K 5% 1K 5%	1/4 <b>W</b>	
FL1325 1-236-303	3-11 FILTER, L	OW PASS				1-249-441-11 1-249-415-11	CARBON CARBON	100K 5% 680 5%	1/4 <b>W</b>	
	<1C>				R1321 R1322	1-249-417-11 1-249-417-11	CARBON CARBON	1K 5% 1K 5%	1/4W 1/4W	
IC1301 8-752-032 IC1302 8-752-032	2-55 IC CXA109				F R1324	1-249-417-11 1-249-417-11 1-249-409-11	CARBON CARBON CARBON	1K 5% 1K 5% 220 5%	1/4W 1/4W 1/4W	
IC1303 8-752-032 IC1304 8-752-328 IC1305 8-759-970	3-75 IC CXD200	10				1-249-409-11 1-249-409-11	CARBON CARBON	220 5% 220 5% 180 5%		
IC1306 8-759-970	)-72 IC CXK120	16M			R1328 R1329	1-249-408-11 1-249-397-11	CARBON CARBON	22 5%	1/4 <b>W</b>	
IC1307 8-752-328 IC1308 8-759-970 IC1309 8-759-970	)-72 IC CXK120	16M			İ	1-249-417-11 1-247-735-11		1K 5% 47 5%		





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	REF.NO.	PART NO.	DESCRIPTION	V -		REMARK	REF.NO.	PART NO.	DESCRIPTIO	N ·			REMARK
	R1332 R1333 R1334 R1335 R1336	1-249-397-11 1-249-413-11 1-249-423-11 1-249-421-11 1-249-409-11	CARBON CARBON CARBON CARBON CARBON	22 5% 470 5% 3.3K 5% 2.2K 5% 220 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C142 C143 C144 C151 C152	1-101-361-00 1-102-973-00 1-102-965-00 1-124-477-11 1-136-161-00	CERAMIC CERAMIC ELECT	150PF 100PF 39PF 47MF 0.047		5% 5% 5% 20% 5%	50V 50V 50V 16V 50V
	R1337 R1360 R1361 R1368 R1369	1-249-409-11 1-249-429-11 1-249-429-11 1-249-417-11 1-249-414-11	CARBON CARBON CARBON CARBON CARBON	220 5% 10K 5% 10K 5% 1K 5% 560 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C153 C154 C155	1-101-004-00 1-101-004-00 1-124-477-11	CERAMIC ELECT	0.01M 0.01M 47MF		20%	50V 50V 16V
	R1370 R1371 R1372 R1373 R1374	1-249-409-11 1-247-887-00 1-249-441-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	220 5% 220K 5% 100K 5% 1K 5% 1K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		CD101 CF101	1-404-684-11 1-567-569-11	FILTER, CER	OR, CER AMIC	AMIC		
			CARBON CARBON CARBON	220K 5% 220K 5% 220K 5%	1/4W 1/4W 1/4W		CNA11 CNA18	<00N *1-566-659-11 *1-565-503-11	INECTOR> CONNECTOR, CONNECTOR,	HINGE (	SOCKET D BOAR	) 18P D 12P	
	*****	**********	**********	********	******	*******	ĺ	<d10< th=""><th>IDE &gt;</th><th></th><th></th><th></th><th></th></d10<>	IDE >				
		*A-1296-497-A						OIO>					
		1-464-964-11 *1-565-488-11 *4-369-734-01	IF BLOCK (IF CONNECTOR, E	G-5.5S)	RD 12P		D101 D108 D109	8-719-000-12 8-719-911-19 8-719-911-19	DIODE 18811				
							i !	<10>					
		<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>IC101</td><td>8-759-240-52</td><td>IC TC4052BP</td><td></td><td></td><td></td><td></td></cap<>	ACITOR>				IC101	8-759-240-52	IC TC4052BP				
	C101 C102 C103 C104 C105	1-126-233-11 1-126-103-11 1-130-475-00 1-124-477-11	ELECT MYLAR ELECT	22MF 470MF 0.0022MF 47MF	20% 20% 5% 20%	50V 16V 50V 16V	IC103	8-759-946-32 8-759-978-65 8-759-003-90	IC SAB3036 IC TBA129				
		1-101-003-00	CERAMIC	0.0047MF		50 <b>V</b>		<01	Γ>				
	C106 C107 C108 C109 C110	1-126-233-11 1-136-177-00 1-101-004-00 1-101-003-00 1-101-003-00	ELECT FILM CERAMIC CERAMIC CERAMIC	22MF 1MF 0.01MF 0.0047MF 0.0047MF	20% 5%	50V 50V 50V 50V 50V	L100 L101 L102 L103 L104		INDUCTOR	560l 3.3l 10UH 8.2l 33UH	IH I IH		
	C111 C112 C113 C115 C116	1-124-477-11 1-101-003-00 1-101-004-00 1-123-875-11 1-123-875-11	ELECT CERAMIC CERAMIC ELECT ELECT	47MF 0.0047MF 0.01MF 10MF 10MF	20% 20% 20%	16V 50V 50V 50V 50V	L106 L108	1-410-471-11 1-410-471-11 <tra< td=""><td></td><td>12UH 12UH</td><td></td><td></td><td></td></tra<>		12UH 12UH			
	C117	1-123-875-11		10MF		50V	Q106			TA144EC	i		
	C118 C119 C120 C121	1-123-875-11 1-136-161-00 1-102-965-00 1-124-477-11	ELECT FILM CERAMIC ELECT	10MF 10MF 0.047MF 39PF 47MF	20% 20% 5% 5% 20%	50V 50V 50V 16V	Q107 Q109	8-729-900-65 8-729-900-89 8-729-901-59 8-729-178-54 8-729-178-54	TRANSISTOR I TRANSISTOR I TRANSISTOR I TRANSISTOR 2 TRANSISTOR 2	)TC144ES 3F199 2SC2785			
	C122 C123 C124 C127 C128	1-124-477-11 1-101-004-00 1-124-477-11 1-124-477-11 1-124-477-11	ELECT CERAMIC ELECT ELECT ELECT	47MF 0.01MF 47MF 47MF 47MF	20% 20% 20% 20%	16V 50V 16V 16V 16V	Q112 Q113 Q114 Q115 Q116	8-729-178-54 8-729-178-54 8-729-178-54 8-729-178-54 8-729-178-54	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	2SC2785 2SC2785 2SC2785			
	C129	1-124-477-11	ELECT	47MF	20%	16V	Q118	8-729-117-54	TRANSISTOR 2	SA1175			
	C130 C132 C133 C134	1-126-101-11 1-101-888-00 1-102-973-00 1-102-963-00	ELECT CERAMIC CERAMIC CERAMIC	100MF 68PF 100PF 33PF	20% 5% 5% 5%	16V 50V 50V 50V	Page	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
	C135 C136 C137 C138 C141	1-124-477-11 1-124-477-11 1-124-477-11 1-136-165-00 1-102-822-00	ELECT ELECT ELECT FILM CERAMIC	47MF 47MF 47MF 0.1MF 390PF	20% 20% 20% 5% 5%	16V 16V 16V 50V 50V	R102 R103 R104 R105 R106	1-249-429-11 1-249-429-11 1-249-437-11 1-249-425-11 1-249-425-11	CARBON CARBON CARBON CARBON CARBON	10K 10K 47K 4.7K 4.7K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
	2171	1 102 022-00	CERARIC	J70F f	3%	JU1	R107	1-249-432-11	CARBON	18K	5%	1/4W	

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.



REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTIO	DN 		REMARK																																																																		
R109 1-249-441-11 R110 1-249-429-11 R111 1-249-423-11 R112 1-249-425-11 R113 1-249-425-11	CARBON         100           CARBON         10N           CARBON         3.3           CARBON         4.7           CARBON         4.7	3K 5% 7K 5%	1/4W 1/4W 1/4W 1/4W 1/4W			*4-379-160-01 *4-379-167-01	COVER (REAF	t LID), CV i), CV																																																																				
R114 1-249-413-11 R115 1-249-405-11 R118 1-249-429-11 R121 1-249-429-11	CARBON         470           CARBON         100           CARBON         10K           CARBON         10K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W		C701 C702	<pre><cap 1-102-976-00="" 1-102-976-00<="" 1-102-978-00="" pre=""></cap></pre>	ACITOR> CERAMIC CERAMIC	220PF 180PF	5% 5% 5%	50 <b>V</b>																																																																		
R122 1-249-428-11 R123 1-249-431-11 R124 1-249-431-11 R125 1-249-431-11	CARBON 8.2  CARBON 15K CARBON 15K CARBON 15K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W		C704 C705	1-123-875-11 1-101-003-00 1-130-338-11	ELECT CERAMIC FILM	180PF 10MF 0.0047MF	57 20% 10%	50V 50V 50V 630V																																																																		
R126 1-249-431-11 R127 1-249-431-11 R128 1-249-413-11 R129 1-249-421-11	CARBON 15K CARBON 15K CARBON 47C CARBON 2.2	5%	1/4W 1/4W 1/4W 1/4W		C711 C712 C713 C714	1-130-338-11 1-162-622-11 1-162-116-00 1-123-946-00	CERAMIC CERAMIC	0.01MF 330PF 680PF 4.7MF	10% 10% 10% 20%	630V 400V 2KV 250V																																																																		
R130 1-249-421-11 R131 1-249-422-11 R133 1-249-422-11 R134 1-249-422-11	CARBON 2.2 CARBON 2.7 CARBON 2.7 CARBON 2.7	2K 5% 7K 5% 7K 5%	1/4W 1/4W 1/4W 1/4W		C715 C716 C717 C718 C719	1-102-822-00 1-102-980-00 1-102-822-00 1-102-976-00 1-162-129-00	CERAMIC CERAMIC CERAMIC	390PF 270PF 390PF 180PF 150PF	5% 5% 5% 5% 10%	50V 50V 50V 50V 2KV																																																																		
R136 1-249-413-11 R137 1-249-405-11 R138 1-249-413-11 R139 1-249-413-11	CARBON 470 CARBON 100 CARBON 470 CARBON 470 CARBON 470	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W		de and die des and de a	<con< td=""><td>NECTOR&gt;</td><td></td><td>10%</td><td>2n v</td></con<>	NECTOR>		10%	2n v																																																																		
R140 1-249-418-11 R141 1-249-413-11 R142 1-249-413-11 R143 1-249-416-11	CARBON         1.2           CARBON         470           CARBON         470           CARBON         820	) 5% ) 5% ) 5%	1/4W 1/4W 1/4W 1/4W		CNC71 CNC83	*1-564-509-11 *1-508-786-00 *1-508-768-00	PIN, CONNEC	CTOR 6P TOR (5MM PIT TOR (5MM PIT	CCH) 2P CCH) 6P																																																																			
R144 1-249-417-11 R145 1-249-413-11 R146 1-249-421-11 R147 1-249-429-11	CARBON 1K  CARBON 470  CARBON 2.2  CARBON 10K	5% 2K 5%	1/4W 1/4W 1/4W 1/4W		D701 D702 D703	<pre></pre>	DIODE 18811 DIODE 18811	9																																																																				
R152 1-249-417-11 R153 1-249-417-11	CARBON 1K CARBON 1K	5%	1/4W 1/4W			<jac< td=""><td>K&gt;</td><td></td><td></td><td></td></jac<>	K>																																																																					
R154 1-249-414-11 R155 1-249-417-11 R157 1-249-417-11 R158 1-249-409-11 R159 1-249-409-11	CARBON         560           CARBON         1K           CARBON         1K           CARBON         220           CARBON         220	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		J701	1-526-798-51 <01		TURE TUBE																																																																				
R160 1-249-396-11 R166 1-249-431-11	CARBON 18 CARBON 15K	5% 5%	1/4W 1/4W		L707	1-410-478-11	INDUCTOR	47UH																																																																				
<16	BLOCK>					<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>																																																																					
S1F101 1-464-963-11 VIF101 1-464-962-11	IF BLOCK (IFG-334				Q701 Q702 Q703 Q704 Q705	8-729-178-54 8-729-178-54 8-729-178-54 8-729-326-11 8-729-326-11	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2785 2SC2785 2SC2611																																																																				
<tr <="" td=""><td>ANSFORMER&gt;</td><td></td><td></td><td></td><td>Q706</td><td>8-729-326-11</td><td>TRANSISTOR</td><td>2SC2611</td><td></td><td></td></tr> <tr><td>T102 1-404-493-00</td><td></td><td></td><td></td><td></td><td></td><td><res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<></td></tr> <tr><td><tun< td=""><td></td><td>to the second special /td><td>rgosca, rabida (c. v. 180).</td><td>The constitution of the co</td><td>R701 R702</td><td>1-249-406-11 1-249-409-11</td><td>CARBON CARBON</td><td>120 5% 220 5%</td><td>1/4W 1/4W</td><td></td></tun<></td></tr> <tr><td>TU101A 1-465-059-11</td><td>American a state</td><td><b>M</b></td><td></td><td></td><td>R703 R704 R705</td><td>1-249-409-11 1-249-406-11 1-249-406-11</td><td>CARBON CARBON CARBON</td><td>220 5% 120 5% 120 5%</td><td>1/4W 1/4W 1/4W</td><td></td></tr> <tr><td></td><td>'STAL&gt; VIBRATOR, CRYSTAL</td><td></td><td></td><td></td><td>R706 R707</td><td>1-249-406-11 1-249-418-11</td><td>CARBON CARBON</td><td>120 5% 1.2K 5%</td><td>1/4W 1/4W</td><td></td></tr> <tr><td>*************</td><td>*************</td><td>******</td><td>*******</td><td>******</td><td>R708 R709 R710</td><td>1-249-409-11 1-249-409-11 1-249-409-11</td><td>CARBON CARBON CARBON</td><td>220 5% 220 5% 220 5%</td><td>1/4W 1/4W 1/4W</td><td></td></tr> <tr><td>*A-1330-901-A</td><td>C BOARD, COMPLETE</td><td></td><td></td><td></td><td> </td><td></td><td></td><td></td><td>2, 1,</td><td></td></tr>	ANSFORMER>				Q706	8-729-326-11	TRANSISTOR	2SC2611			T102 1-404-493-00						<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>				<tun< td=""><td></td><td>to the second special /td><td>rgosca, rabida (c. v. 180).</td><td>The constitution of the co</td><td>R701 R702</td><td>1-249-406-11 1-249-409-11</td><td>CARBON CARBON</td><td>120 5% 220 5%</td><td>1/4W 1/4W</td><td></td></tun<>		to the second special	rgosca, rabida (c. v. 180).	The constitution of the co	R701 R702	1-249-406-11 1-249-409-11	CARBON CARBON	120 5% 220 5%	1/4W 1/4W		TU101A 1-465-059-11	American a state	<b>M</b>			R703 R704 R705	1-249-409-11 1-249-406-11 1-249-406-11	CARBON CARBON CARBON	220 5% 120 5% 120 5%	1/4W 1/4W 1/4W			'STAL> VIBRATOR, CRYSTAL				R706 R707	1-249-406-11 1-249-418-11	CARBON CARBON	120 5% 1.2K 5%	1/4W 1/4W		*************	*************	******	*******	******	R708 R709 R710	1-249-409-11 1-249-409-11 1-249-409-11	CARBON CARBON CARBON	220 5% 220 5% 220 5%	1/4W 1/4W 1/4W		*A-1330-901-A	C BOARD, COMPLETE								2, 1,	
ANSFORMER>				Q706	8-729-326-11	TRANSISTOR	2SC2611																																																																					
T102 1-404-493-00						<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>																																																																					
<tun< td=""><td></td><td>to the second special /td><td>rgosca, rabida (c. v. 180).</td><td>The constitution of the co</td><td>R701 R702</td><td>1-249-406-11 1-249-409-11</td><td>CARBON CARBON</td><td>120 5% 220 5%</td><td>1/4W 1/4W</td><td></td></tun<>		to the second special	rgosca, rabida (c. v. 180).	The constitution of the co	R701 R702	1-249-406-11 1-249-409-11	CARBON CARBON	120 5% 220 5%	1/4W 1/4W																																																																			
TU101A 1-465-059-11	American a state	<b>M</b>			R703 R704 R705	1-249-409-11 1-249-406-11 1-249-406-11	CARBON CARBON CARBON	220 5% 120 5% 120 5%	1/4W 1/4W 1/4W																																																																			
	'STAL> VIBRATOR, CRYSTAL				R706 R707	1-249-406-11 1-249-418-11	CARBON CARBON	120 5% 1.2K 5%	1/4W 1/4W																																																																			
*************	*************	******	*******	******	R708 R709 R710	1-249-409-11 1-249-409-11 1-249-409-11	CARBON CARBON CARBON	220 5% 220 5% 220 5%	1/4W 1/4W 1/4W																																																																			
*A-1330-901-A	C BOARD, COMPLETE								2, 1,																																																																			



	REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
	R711 R712 R713 R714 R715	1-249-409-11 1-249-409-11 1-249-418-11 1-249-418-11 1-249-418-11	CARBON	220 220 1.2K 1.2K 1.2K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		L752	1-410-468-11 1-410-482-31	INDUCTOR	10001			
	R718 R719 R721	1-249-418-11 1-249-418-11 1-249-426-11 1-249-426-11 1-215-923-00	CARBON CARBON CARBON METAL OXIDE					Q751 Q752 Q753 Q754 Q755	<pre><tra 8-729-177-24="" 8-729-178-54="" 8-729-188-24="" 8-729-188-24<="" 8-729-378-84="" pre=""></tra></pre>					
	R722 R723 R724 R725 R726	1-215-923-00 1-215-923-00 1-215-923-00 1-215-923-00 1-215-923-00	METAL OXIDE	10K 10K 10K 10K 10K	5% 5% 5% 5%	3W 3W 3W 3W	F F F	Q756 Q757	8-729-201-78 8-729-178-54	TRANSISTUR 2	SD1406-0 SC2785	R		
	K734	1-216-348-00	METAL OXIDE	0.82	5%	1/2W 1/2W 1/2W 1/2W 1/2W	F	R751 R752 R753 R754 R755	1-249-409-11 1-249-409-11 1-249-415-11 1-249-411-11 1-216-431-11	CARBON CARBON CARBON CARBON CARBON CARBON METAL OXIDE	220 220 680 330 560	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	F
			SOLID SOLID CARBON SOLID SOLID			1/2W 1/2W 1/4W 1/2W 1/2W		R756 R757	1-249-414-11 1-249-426-11 1-249-435-11 1-249-393-11 1-216-449-11	CARBON CARBON	560 5.6K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 2W	F F
	R741	1-202-842-11 SOLID 220K 10% 1/2W  VARIABLE RESISTOR>  1 1-228-989-00 RES, ADJ, CARBON 470 1 1-228-989-00 RES, ADJ, CARBON 470 3 1-228-993-00 RES, ADJ, CARBON 4.7K 4 1-228-721-00 RES, ADJ, CERAMIC CARBON 2.2K 5 1-228-721-00 RES, ADJ, CERAMIC CARBON 2.2K 6 1-228-721-00 RES, ADJ, CERAMIC CARBON 2.2K 7 1-230-619-11 RES, ADJ, METAL GLAZE 110M 18 1-230-641-21 RES, ADJ, METAL GLAZE 2.2M						R764 R765 R766 R767 R768	1-249-409-11 1-249-381-11 1-249-426-11 1-249-417-11 1-249-426-11	CARBON CARBON CARBON CARBON CARBON			1/4W 1/4W 1/4W 1/4W 1/4W	F
	RV702 RV703 RV704 RV705	1-228-989-00 1-228-993-00 1-228-721-00 1-228-721-00	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CER RES, ADJ, CER	7K ARBON ( ARBON (	2.2K 2.2K		R769 R771 R772 R773	1-249-409-11 1-249-423-11 1-249-391-11 1-249-396-11	CARBON CARBON CARBON CARBON	220 3.3K 6.8 18	55222	1/4W 1/4W 1/4W 1/4W	F	
			RES, ADJ, CER RES, ADJ, MET RES, ADJ, MET									>% ****	1/4W ******	******
		*A-1342-071-A	VM BOARD, COM	PLETE					1-424-168-11 1-459-919-11 *4-341-736-01 *4-341-751-01 *4-341-752-01	TRANSFORMER. TRANSFORMER BRACKET, FOC	***** PIN MOD	ULATI	ION	
	C751 C752 C754 C756	1-102-973-00 1-130-021-00 1-126-101-11 1-136-153-00	MYLAR ELECT	100PF 0.0018 100MF 0.01MF	MF :	5% 10% 20% 10%	50V 50V 16V 50V			ACITOR>				
	C758 C760 C761 C763	1-136-153-00 1-124-925-11 1-106-220-00 1-124-122-11	MYLAR ELECT MYLAR ELECT	0.01MF 2.2MF 0.1MF 100MF	:	10% 20% 10% 20%	50V 50V 100V 50V	C501 C503 C504 C505 C506	1-124-122-11 1-102-123-00 1-124-120-11 1-124-902-00 1-102-112-00	ELECT CERAMIC ELECT ELECT CERAMIC	100MF 0.0033M 220MF 0.47MF 330PF	F	20% 10% 20% 20% 10%	50V 50V 25V 50V 50V
	C766	1-126-176-11 1-101-006-00 1-124-122-11 1-102-125-00	CERAMIC ELECT	220MF 0.047M 100MF 0.0047	F	20% 20% 10%	6.3V 50V 50V	C507 C508 C509 C510 C512	1~136~169~00 1~130~491~00 1~126~101~11 1~106~367~00 1~130~475~00	FILM MYLAR ELECT MYLAR MYLAR	0.22MF 0.047MF 100MF 0.01MF 0.0022M		5% 5% 20% 10% 10%	50V 50V 16V 100V 50V
<pre><connector> CNM83 *1-564-506-11 PLUG, CONNECTOR 3P</connector></pre>								C513 C515 C516	1-124-499-11 1-102-116-00 1-124-499-11	ELECT CERAMIC ELECT	1MF 680PF 1MF		20% 10% 20%	50V 50V 50V
CNM85 *1-564-507-11 PLUG, CONNECTOR 4P							C517 C518	1-124-902-00 1-136-175-00	ELECT FILM	0.47MF 0.68MF		20% 5%	50V 50V	
	<coil></coil>							C519	1-124-637-11	ELECT	1000MF		20%	50 <b>V</b>

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.



DEE N	O DADT NO	DESCRIPTION			DEMADY	idee nu	DADT NO	DESCRIPTION	1		REMARK
	O. PART NO.				HEMAIK.	LEF. NO.	PART NO.	PESCRIFTION			
C520 C521	1-106-391-12	MYLAR	330MF 0.1MF 0.039MF	20% 10%	50V 200V	C836	1-102-030-00				500V
C522 C523 C524	1-108-428-12 1-106-387-00 1-124-342-00	MYLAR MYLAR ELECT	0.039MF 0.068MF 3.3MF	10% 10% 20%	200V 200V 160V	C837 C838 C839	1-124-480-11 1-106-367-00 1-124-929-11	MYLAR	470MF 0.01MF 22MF	20% 10% 20%	25V 200V 100V
C525	1-102-820-00	CERAMIC			50V	C840 C841	1-162-114-00 1-106-383-00	CERAMIC	0.0047MF 0.047MF	10%	2KV 200V
C526 C527 C528	1-123-875-11 1-102-978-00 1-124-477-11	CERAMIC	330PF 10MF 220PF 47MF 100MF	5% 20%	50V 50V 16V	C842 C843	1-136-153-00 1-130-479-00	MYLAR MYLAR	0.01MF 0.0047MF 47MF	10% 10%	50V 50V
C530 C531	1-124-122-11	ELECT MVI AR	100MF 0.068MF	20% 10%	50V 200V	C844 C845 C847	1-124-910-11 1-126-233-11 1-162-318-11	ELECT	47MF 22MF 0.001MF	20% 20%	50V 50V 500V
C539 C540	1-102-233-00 1-130-479-00	CERAMIC MYLAR	33PF 0.0047MF	10% 10%	500V 50V	C848	1-102-244-00	CERAMIC	220PF	10%	500V
C541 C542	1-106-220-00	MYLAR	0.1MF	20% 10%	50V 100V	C861 C862 C863	1-124-499-11` 1-136-154-00 1-106-351-00	ELECT MYLAR MYLAR	1MF 0.012MF 0.0022MF 0.001MF 47MF	20% 10% 10%	50V 50V 100V
C543 C544 C545	1-102-244-00	MYLAR CERAMIC ELECT	0.022MF 220PF 2.2MF	10% 10% 20%	100V 500V 50V	C864 C865	1-106-343-00 1-124-910-11	MYLAR ELECT	0.001MF 47MF	10% 20%	100V 50V
C546 C547	1-123-875-11 1-130-728-00	ELECT FILM	10MF 0.0022MF	20% 5%	50V 50V	C866 C867	1-106-379-12 1-124-902-00 1-106-383-00 1-106-375-12	MYLAR ELECT	0.033MF 0.47MF	10% 20%	200V 50V
C548 C549	1-124-122-11	CERAMIC ELECT	330PF 100MF	5% 20%	50V 50V	C868 C869	1-106-375-12	MYLAR	0.047MF 0.022MF	10% 10%	100V 200V
C550 C551 C552	1-124-925-11 1-124-122-11 1-124-464-11	ELECT ELECT ELECT	2.2MF 100MF 0.22MF	20% 20% 20%	50V 50V 50V		<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></con<>	NECTOR>			
C553	1-126-101-11	ELECT	100MF	20%	16V	CN801 CND81	*1-508-767-00 *1-564-513-11 *1-508-767-00	PIN, CONNECT PLUG, CONNEC	OR (5MM PITO TOR 10P	CH) 5P	
C554 C555 C556	1-124-927-11 1-136-155-00 1-124-499-11	ELECT MYLAR ELECT	4.7MF 0.015MF 1MF	20% 10% 20%	50V 50V 50V	CND83	*1-508-767-00 *1-508-768-00 *1-565-952-11	PIN, CONNECT	OR (5MM PITO	H) 5P H) 6P	
C557 C558	1-126-101-11 1-124-499-11	ELECT ELECT	100MF 1MF	20% 20%	16V 50V	CND85	*1-564-507-11	PLUG. CONNEC	TOR 4P	ישר (ווי	
C560 C561	1-130-477-00 1-102-112-00	MYLAR CERAMIC	0.0033MF 330PF	10% 10%	50V 50V	CND88	*1-508-786-00 *1-508-784-00 *1-508-784-00	PIN, CONNECT	OR (5MM PITO	H) IP H) IP	
C801 C802	1-123-875-11 1-124-902-00	ELECT ELECT	10MF 0.47MF	20% 20%	50V 50V	LND89	<b>*</b> 1-564-508-11		אל אטוי.		
C803 C804 C805	1-124-925-11 1-124-910-11 1-106-343-00	ELECT ELECT Mylar	2.2MF 47MF 0.001MF	20% 20% 10%	50V 50V 200V	D502	<d10 8-719-109-75</d10 		S-R2		
C806 C807	1-124-122-11	ELECT MYLAR	100MF 0.1MF	20% 10%	50V 50V	D503 D505	8-719-911-19 8-719-936-83	DIODE 188119 DIODE GPO8DP	KG23		
C808 C809	1-124-499-11 1-130-471-00	MYLAR	1MF 0.001MF	20% 10%	50V 50V	D506 D507	8-719-936-83	DIODE GPOSDP	KG23		
C810 C814 C815	1-126-101-11 1-162-134-11 1-124-927-11	ELECT CERAMIC ELECT	100MF 470PF 4.7MF	20% 10% 20%	16V 2KV 50V	D508 D509 D510	8-719-936-83 8-719-936-83 8-719-936-83	DIODE GPOSDP DIODE GPOSDP DIODE GPOSDP	KG23		
C816	1-124-494-00	ELECT	33MF		160V	D511 D513	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119			
C817 C818 C819 C820	1-125-319-00 1-102-244-00 1-102-212-00	ELECT (BLOCK) CERAMIC CERAMIC	330MF 220PF 820PF	20% 10% 10%	160V 500V 500V	D514 D515	8-719-911-19 8-719-936-83	DIODE 1SS119 DIODE GPO8DP			
	1-106-383-00 <b>A</b> 1-162-116-51	MYLAR CERANIC	0.047MF 680PF	10%	200V	D516 D801 D802	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119			
C823 C824	A 1-162-116-51 1-108-410-12	CERANIC Mylar	680PF 0.0012MF	102	2KV 200V	D803	8-719-911-19	DIODE 155119			
C825 C826	1-102-030-00 1-129-723-00	CERAMIC FILM	330PF 0.056MF	10% 5%	500V 630V	D805 D806 D807	8-719-911-19 8-719-911-19 8-719-924-06	DIODE 1SS119 DIODE 1SS119 DIODE ERC24-			
C827 C828	1-130-660-11 1-136-126-00	FILM FILM	20000MF 0.82MF	3% 5%	1.6KV 400V	D808	8-719-971-09	DIODE ERDO8-	15		
C829 C830 C831	1-106-351-00 1-136-598-11 1-130-797-11	MYLAR FILM FILM	0.0022MF 3MF 0.68MF	5% 10%	200V 200V 250V	D809	4-377-115-01 *4-391-704-01 8-719-971-08	SPACER, MICA HOLDER (A), DIODE ESAC39	TR; D808 M-06C		
C832 C833	1-106-395-00 1-162-131-11	MYLAR CERANIC	0.15MF 220PF	10% 10%	200V 2KV	D810 D811	8-719-936-83 8-719-936-83	DIODE GPOSDP	KG23		
C834 C835	1-124-637-11 1-102-030-00	ELECT CERAMIC	1000MF 330PF	20% 10%	50V 500V	D812 D813	8-719-924-06 8-719-901-58	DIODE RGP15JI			
						D814	8-719-300-65	DIONE F214			

The components identified by shading and mark  $ilde{\mathbb{A}}$  are critical for safety.
Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
D815 D816 D860 D861	8-719-924-06 8-719-300-65 8-719-936-83 8-719-936-83	DIODE ERC24-06S DIODE ES1F DIODE GPO8DPKG23 DIODE GPO8DPKG23		Q5004 Q5005	8-729-900-89 8-729-900-89	TRANSISTOR D TRANSISTOR D	TC144ES TC144ES			
D862	8-719-931-02 DIODE EGROI-02				<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
I C501 I C503	<ic> 8-759-100-60 8-759-178-12</ic>	IC UPC1377C IC UPC78L12		R503 R504 R505 R506 R507	1-215-461-00 1-249-417-11 1-249-437-11 1-249-421-11 1-217-387-00	METAL CARBON CARBON CARBON FUSIBLE	47K 1K 47K 2.2K 10	1% 5% 5% 5%	1/6W 1/4W 1/4W 1/4W 1/4W	F
10802 10803	8-759-942-16 8-759-145-58 8-759-982-30	IC UPC4558C IC RC78L24A		R508 R509 R510 R511 R512	1-215-484-00 1-249-428-11 1-215-451-00 1-249-421-11 1-249-429-11	METAL CARBON METAL CARBON CARBON	430K 8.2K 18K 2.2K 10K	1% 5% 1% 5%	1/6W 1/4W 1/6W 1/4W 1/4W	
L801 L803 L804 L805 L806	1-459-474-00 1-408-228-21 1-459-104-00 1-459-194-00 1-410-396-41	DIODE ERC24-06S DIODE ES1F DIODE GPO8DPKG23 DIODE GPO8DPKG23 DIODE EQBO1-05  IC UPC1377C IC UPC78L12 IC TEA2031A IC UPC4558C IC RC78L24A  L>  COIL (WITH CORE) INDUCTOR 560UH COIL, DUST CORE INDUCTOR 1.8MMH FERRITE BEAD INDUCTOR COIL, CHOKE INDUCTOR 82UH COIL, DUST CORE FERRITE BEAD INDUCTOR INDUCTOR 33MMH  TRANSFORMER, DYNAMIC CONVERSION COIL (WITH CORE)		R513 R515 R516 R518 R519	1-215-469-00 1-215-447-00 1-215-451-00 1-249-425-11 1-202-723-00	METAL METAL METAL CARBON SOLID	100K 12K 18K 4.7K 2.2M	1% 1% 1% 5% 10%	1/6W 1/6W 1/6W 1/4W 1/2W	
L807 L808 L809 L810 L860	1-459-485-00 1-410-674-31 1-459-104-00 1-410-396-41 1-408-247-00	COIL, CHOKE INDUCTOR 82UH COIL, DUST CORE FERRITE BEAD INDUCTOR INDUCTOR 33MMH		R520 R521 R522 R523 R524	1-249-429-11 1-249-423-11 1-249-413-11 1-249-418-11 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	10K 3.3K 470 1.2K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
L861 L862	1-443-012-00 1-459-105-21	TRANSFORMER, DYNAMIC CONVERSION COIL (WITH CORE)  N LAMP> LAMP, NEON  LINK>		R525 R526 R527 R528 R529	1-249-417-11 1-215-878-00 1-249-405-11 1-249-749-00 1-249-424-11	CARBON CARBON	1K 33K 100 2.2M 3.9K	5% 5% 5% 5%	1/4W 1W 1/4W 1/4W 1/4W	F
NL801	1-519-108-XX	LAMP, NEON		R530 R531 R532	1-249-429-11 1-249-423-11 1-202-731-00 1-215-453-00	CARBON	10K 3.3K 10M	5% 5% 10%	1/4W 1/4W 1/2W	
PSROLA	1-532-605-01	LINK AC DAY DOWN AND THE SECOND	1. V +	R534	1-215-459-00	METAL	22K 39K	12	1/6W 1/6W	
Q502	<trai< td=""><td>NSISTOR&gt; TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SA1175 TRANSISTOR 2SD774</td><td></td><td>R535 R536 R537 R538 R539</td><td>1-216-457-00 1-215-444-00 1-249-415-11 1-249-413-11 1-249-416-11</td><td>METAL OXIDE METAL CARBON CARBON CARBON</td><td>1.2K 9.1K 680 470 820</td><td>5% 5% 5% 5%</td><td>2W 1/6W 1/4W 1/4W 1/4W</td><td>F</td></trai<>	NSISTOR> TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SA1175 TRANSISTOR 2SD774		R535 R536 R537 R538 R539	1-216-457-00 1-215-444-00 1-249-415-11 1-249-413-11 1-249-416-11	METAL OXIDE METAL CARBON CARBON CARBON	1.2K 9.1K 680 470 820	5% 5% 5% 5%	2W 1/6W 1/4W 1/4W 1/4W	F
				しいひもつ	1-210-890-11	METAL OXIDE METAL OXIDE METAL OXIDE METAL OXIDE	1.5 680 100 470	5% 5% 5%	1W 3W 1W 2W	
0509 0510 0511	8-729-103-43 8-729-320-27 8-729-320-28 8-729-195-82 8-729-117-54	TRANSISTOR 2SB734-3 TRANSISTOR 2SC4381 TRANSISTOR 2SA1667 TRANSISTOR 2SC2958-K TRANSISTOR 2SA1175		R544 R545 R546 R547 R548	1-215-859-00 1-249-415-11 1-249-415-11 1-249-385-11 1-212-936-00	CARBON CARBON CARBON CARBON FUSIBLE	680 680 2.2	5% 5% 5%	1W 1/4W 1/4W 1/4W 1/2W	F
0514 0801 0802	8-729-178-54 8-729-178-54 8-729-600-27 8-729-600-27 8-729-378-84	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2458-BL TRANSISTOR 2SC2458-BL TRANSISTOR 2SD788		R549 R550 R552 R553	1-212-936-00 1-216-478-11 1-212-889-00 1-212-936-00	FUSIBLE  METAL OXIDE FUSIBLE FUSIBLE	1.2 1.2 390 220 1.2	55% 55% 55% 55% 55%	1/2W 3W 1/4W 1/2W	F F F
	8-729-119-80	TRANSISTOR 2SC3298B-Y TRANSISTOR 2SC2688-LK TRANSISTOR 2SC3996 SPACER (A), MICA; Q806		R554 R555 R556 R557	1-215-869-11 1-216-454-11 1-216-454-11 1-247-901-11	METAL OXIDE METAL OXIDE METAL OXIDE CARBON	1K 390 390 820K	5% 5% 5%	1W 2W 2W 1/4W	F
Q860 Q861	8-729-195-82 8-729-122-03	HOLDER (B), TR; Q806 TRANSISTOR 2SC2958-K TRANSISTOR 2SA1220A-P		R558 R559 R560	1-249-429-11 1-249-429-11 1-247-903-00	CARBON CARBON CARBON	10K 10K 1M	5% 5% 5%	1/4W 1/4W 1/4W	
4862 45001	8-729-117-54 8-729-900-89	TRANSISTOR ZSA1175 TRANSISTOR DTC144ES TRANSISTOR DTC144ES		R569 R570 R571 R572	1-249-440-11 1-249-417-11 1-249-437-11 1-249-421-11	CARBON CARBON CARBON CARBON	82K 1K 47K 2.2K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	



REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R573 1-249-411-11 R574 1-249-417-11 R575 1-249-417-11 R576 1-249-440-11 R577 1-249-423-11	CARBON CARBON CARBON CARBON CARBON	330 1K 1K 82K 3.3K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W		R846 R847 R848	1-215-898-11 1-247-727-11 1-215-868-00 1-216-449-11 1-216-450-00	CARBON METAL OXIDE METAL OXIDE		5% 2V 5% 1V 5% 2V 5% 2V	′2₩ 	F F F
R578 1-249-433-11 R579 1-249-433-11 R580 1-249-430-11 R581 1-215-449-00 R582 1-214-757-00	CARBON CARBON METAL METAL	15K 15K	5% 1/4W 5% 1/4W 5% 1/4W 1% 1/6W 1% 1/4W		R850 R851 R852 R853 R854	1-216-450-00 1-216-357-00 1-215-904-11 1-249-397-11 1-249-441-11		82 4.7 100K 22 100K		) 	F F
R583 1-215-421-00 R584 1-249-405-11 R585 1-249-419-11 R586 1-249-428-11 R587 1-249-429-11	CARBON CARBON CARBON CARBON	1K 100 1.5K 8.2K 10K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W		R855 R856 R857 R858 R861	1-214-925-00 1-247-725-11 1-249-419-11 1-247-891-00 1-247-887-00	CARBON	330K 10K 1.5K 330K 220K	5% 1/	2W 4W 4W 4W	
R588 1-249-427-11 R589 1-249-429-11 R590 1-249-417-11 R591 1-249-417-11 R592 1-249-440-11	CARBON- CARBON CARBON CARBON	6.8K 10K 1K 1K 82K			; K865	1-249-436-11 1-247-889-00 1-212-952-00 1-215-881-11 1-249-411-11	CARBON CARBON FUSIBLE	39K 270K	5% 1/ 5% 1/ 5% 1/ 5% 2%	4W 4W 2W	4 4 4
R593 1-249-429-11 R594 1-249-429-11 R595 1-249-423-11 R597 1-249-423-11		10K 10K 6.8K 3.3K 3.3K			R5001	1-249-429-11	CARBON METAL OXIDE	3.3K 330 15 10K 2.2K	5% 1/ 5% 1/ 5% 3W 5% 1/ 5% 1/	4W 4W 4W	F
R598 1-249-441-11 R599 1-249-433-11 R801 1-249-417-11 R802 1-249-429-11 R803 1-249-428-11	CARBON CARBON CARBON CARBON	100K 22K 1K 10K 8.2K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W				CARBON METAL OXIDE	10K 2.2K	5% 1/ 5% 2W	4 W	F
R804 1-249-434-11 R805 1-249-441-11 R806 1-249-417-11 R807 1-249-435-11 R808 1-249-433-11	CARBON CARBON CARBON CARBON				RV501 RV502 RV503 RV504 RV505	1-230-504-11 1-228-994-00 1-228-995-00 1-226-702-00 1-228-994-00	IABLE RESISTOR  RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, MET RES, ADJ, MET	BON 220 BON 10K BON 22K AL GLAZI AL GLAZI	E 2.2K E 10K		
R812 1-249-432-11	CARBON CARBON CARBON CARBON CARBON	15K 4.7K 2.2K 18K 150K			RV506 RV507 RV801 RV802	1-228-991-00 1-228-991-00 1-228-991-00 1-228-999-00	RES. ADJ. CAR RES. ADJ. CAR RES. ADJ. CAR RES. ADJ. CAR RES. ADJ. CAR	BON 2.21 BON 2.21 BON 2.21 BON 4701	( ( (		
R815 1-249-440-11 R816 1-249-433-11 R817 1-249-417-11 R819 1-249-439-11 R820 1-249-439-11	CARBON CARBON	82K 22K 1K 68K	5% 1/4W		RV804	1-228-994-00 1-228-995-00	RES, ADJ, CAR RES, ADJ, CAR RK GAP>	RON 10K	Ì		
R822 1-249-429-11 R823 1-215-917-11 R824 1-249-417-11 R825 1-215-900-11 R826 1-249-426-11		10K 1K 1K 22K 5.6K	5% 1/4W 5% 3W 5% 1/4W 5% 2W 5% 1/4W	F F	SG801	1-519-063-XX	DISCHARGING G	AP			
R827 1-249-429-11 R828 1-249-441-11 R829 1-249-426-11 R830 1-249-429-11 R831 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	5.6K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W		i !	**********	TRANSFORMER, I	******	(,	***	*******
R834 1-249-496-11 R835 1-249-470-11 R836 1-216-345-11 R837 1-215-905-11 R838 1-216-434-11	CARBON CARBON METAL OXIDE METAL OXIDE METAL OXIDE	0.47	5% 1/2W 5% 1/2W 5% 1W 5% 3W 5% 1W	7 7		4-380-698-01 4-380-699-01	CASE (MAIN), S CASE (UPPER LI CASE (BOTTOM I	**** SHIELD, ID), SHI	ELD, A1	2	
R839 1-247-761-11 R841 1-215-920-11 R842 1-215-920-11 R843 1-215-917-11	CARBON METAL OXIDE METAL OXIDE METAL OXIDE	3.3K 5	5% 1/2W 5% 3W 5% 3W 5% 3W	F F		<cap!< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td></cap!<>	ACITOR>				

The components identified by shading and mark  $ext{$ A $}$  are critical for safety.
Replace only with part number specified.



REF.	NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRI	PTION			R	REMARK
C02 C03 C05 C06 C07		ELECT 2 ELECT 1 ELECT 2 ELECT 2	220MF 330MF Loomf 220MF LMF	20% 20% 20% 20% 20% 20%	16V		<	COIL> OO INDUCTO OO INDUCTO OO INDUCTO OO INDUCTO		15UH 6.8UH 6.8UH			
C08 C09 C10 C11 C12	1-163-097-00 1-163-141-00 1-163-133-00 1-163-037-11 1-163-127-00	CERAMIC CHIP 1 CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 2	15PF ).001MF 170PF ).022MF 270PF	5% 10% 5% 10% 5%	50V 50V 50V 25V 50V		<						Salation in
C13 C14 C15 C16 C17	1-163-117-00 1-163-097-00 1-163-103-00 1-163-021-00 1-163-809-11	CERAMIC CHIP 1 CERAMIC CHIP 1 CERAMIC CHIP 2 CERAMIC CHIP 0 CERAMIC CHIP 0	100PF 15PF 27PF 0.01MF 0.047MF	5% 5% 5% 10%	50V 50V 50V 50V 25V	Q01	< 8-729-904-	TRANSISTOR	STOR 2SD	1761-E		a. A. 心 地 [2] (1) 等 (1)	W 15 4
C18 C19 C20 C21 C24	1-163-099-00 1-163-809-11 1-163-125-00 1-163-833-00	CERAMIC CHIP 1 CERAMIC CHIP C CERAMIC CHIP 2 CERAMIC CHIP C	18PF ). 047MF 220PF ). 068MF	5% 10% 5% 20%	50V 25V 50V 25V 16V	Q02 Q03 Q04 Q05	8-729-900- 8-729-271- 8-729-202-	06 TRANSIS 59 TRANSIS 22 TRANSIS 06 TRANSIS	STOR DTC STOR 2SC STOR 2SC	114EK 2712G 2873Y			
C25 C27 C28 C29 C51	1-124-477-11 1-163-129-00 1-163-137-00 1-124-927-11	ELECT 4 CERAMIC CHIP 3 CERAMIC CHIP 6	17MF 330PF 580PF 1.7MF		16V 50V 50V 50V 25V	Q07 Q09	8-729-900- 8-729-800- 8-729-800-	98 TRANSIS 68 TRANSIS 68 TRANSIS 68 TRANSIS	STOR DTC STOR 2SB STOR 2SB	143TK 815B6 815B6			
C52 C53 C54 C55 C56	1-163-038-00 1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CHIP ( CERAMIC CHIP ( CERAMIC CHIP ( CERAMIC CHIP ( CERAMIC CHIP (	).1MF ).1MF ).1MF ).1MF			RO2 RO4 RO5	1-218-326- 1-216-065- 1-218-326- 1-216-025-	RESISTOR> 11 METAL 0 00 METAL 0 11 METAL 0 00 METAL 0	LAZE LAZE ILAZE	470 4.7K 470 100	5% 5%	1/2W 1/10W 1/2W 1/10W	
C57 C58 C59		CERAMIC CHIP ( CERAMIC CHIP ( CERAMIC CHIP (	0.001MF 0.001MF 0.001MF	10% 10% 10%	50V 50V 50V	R07 R08 R09 R13	1-216-025- 1-216-037- 1-216-091- 1-216-025-	OO METAL GOO MET	LAZE LAZE LAZE LAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
CNV CNV	01 *1-565-393-11 02 *1-565-393-11 03 *1-508-784-00	INECTOR>  CONNECTOR, BOA  CONNECTOR, BOA  PIN, CONNECTOR	ARD TO BOARD ARD TO BOARD R (5MM PITCH	) ) 1) 1P		R15 R16 R17 R18	1-216-121- 1-216-055- 1-216-049- 1-216-065-	OO METAL GOO	LAZE LAZE LAZE LAZE	100 1M 1.8K 1K 4.7K 330	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
сто	<tri 1 1-141-392-11 <dio< td=""><td></td><td>MMER (1 GANG</td><td>;)</td><td></td><td></td><td></td><td>OO METAL G OO METAL G OO METAL G OO METAL G</td><td>LAZE LAZE LAZE LAZE</td><td>560 5</td><td></td><td>1/10W 1/10W 1/10W 1/10W 1/10W 1/4W</td><td></td></dio<></tri 		MMER (1 GANG	;)				OO METAL G OO METAL G OO METAL G OO METAL G	LAZE LAZE LAZE LAZE	560 5		1/10W 1/10W 1/10W 1/10W 1/10W 1/4W	
D01 D02 D03 D04 D07	8-719-400-95 8-719-914-43 8-719-420-42	DIODE MA3130L DIODE DAN202K				R31 R32 R33 R34 R37	1-218-325- 1-218-325- 1-216-023- 1-216-049- 1-216-025-	11 METAL G 00 METAL G 00 METAL G	LAZE LAZE LAZE	120 120 82 1K 100	5% 5%	1/4W 1/4W 1/10W 1/10W 1/10W	
DO8 DO9 D10 D11 D12	8-719-914-43 8-719-914-43 8-719-914-44	DIODE MA3068M DIODE DAN202K DIODE DAN202K DIODE DAP202K DIODE DAP202K				R38 R40 R41 R43 R44	1-216-047- 1-216-065- 1-216-041- 1-216-065- 1-216-041-	OO METAL G OO METAL G	LAZE LAZE LAZE	4.7K	7	1/10W 1/10W 1/10W 1/10W 1/10W	
I C 1 I C 2 I C 3	8-759-972-96	IC MAB8461P-W1 IC SAA5231-V6	136			R45 R46 R51 R52 R53	1-216-049-1 1-216-311-1 1-216-065-1 1-216-065-1	OO METAL G OO METAL G OO METAL G	LAZE LAZE LAZE	6.8 4.7K 4.7K	X X	1/10W 1/10W 1/10W 1/10W 1/10W	
i č4		IC TMM2063P-70	)			R54 R55 R56	1-216-065- 1-216-057- 1-216-065-	OO METAL G	LAZE :	4.7K 5 2.2K 5 4.7K 5	%	1/10W 1/10W 1/10W	

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									V	H	J2	J1
REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTIO	N		REMARK
R57 R58 R59 R60 R61	1-216-065-00 1-216-049-00 1-216-056-00 1-216-063-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1K 2K 3.9K 8.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		J1499	1-507-806-00	JACK Sistor>			
R62 R63 R64 R65 R66	1-216-065-00 1-216-065-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 4.7K 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1499 ******	1-247-708-11 1-247-708-11	CARBON *********		1/4W 1/4W	******
R67 R68 R69	1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W		: : : : : : :	*A-1388-080-A	J1 BOARD, CO ************************************			
	<var< td=""><td>IABLE RESISTOR</td><td><b>?</b>&gt;</td><td></td><td></td><td></td><td>C202</td><td>1-124-902-00</td><td></td><td>0.47MF</td><td>20%</td><td>50V</td></var<>	IABLE RESISTOR	<b>?</b> >				C202	1-124-902-00		0.47MF	20%	50V
RV01		RES, ADJ, CAR	RBON 22	0			C203 C204 C206 C208	1-124-477-11 1-124-902-00 1-124-477-11 1-102-110-00	ELECT ELECT ELECT CERAMIC	47MF 0.47MF 47MF 220PF	20% 20% 20% 10%	16V 50V 16V 50V
		STAL>					C213	1-126-233-11	ELECT	22MF	20%	50V
X01 X02 X03	1-567-495-21	OSCILLATOR, ( OSCILLATOR, ( VIBRATOR, CER	CRYSTAL RAMIC		******	******	C214 C216 C217 C218	1-130-481-00 1-102-110-00 1-124-902-00 1-136-157-00	MYLAR CERAMIC ELECT MYLAR	0.0068MF 220PF 0.47MF 0.022MF	10% 10% 20% 10%	50V 50V 50V 50V
	*1-627-728-11						C219 C220	1-136-157-00 1-130-477-00	MYLAR MYLAR	0.022MF 0.0033MF	10% 10%	50V 50V
	*4-390-706-01	******					C221 C222 C223	1-130-477-00 1-136-157-00 1-136-157-00	MYLAR MYLAR MYLAR MYLAR	0.0033MF 0.022MF 0.022MF	107 107 107 107	50V 50V 50V
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td><td>C224 C225</td><td>1-136-153-00 1-136-173-00</td><td>FILM</td><td>0.01MF 0.47MF</td><td>10% 5% 5%</td><td>50V 50V</td></con<>	NECTOR>					C224 C225	1-136-153-00 1-136-173-00	FILM	0.01MF 0.47MF	10% 5% 5%	50V 50V
	*1-564-523-11 *1-564-520-11						C226 C227 C228	1-136-173-00 1-136-157-00 1-136-159-00	FILM MYLAR MYLAR	0.47MF 0.022MF 0.033MF	10% 10%	50V 50V 50V
	<010	DE>					C229 C230	1-136-155-00 1-136-155-00	MYLAR	0.015MF 0.015MF	101	50V 50V
D1002	8-719-800-94 8-719-812-41	DIODE TLR124	ļ.				C231 C232 C233	1-124-902-00 1-123-875-11 1-102-114-00	ELECT	0.47MF 10MF 470PF	201 201 101	50V 50V 50V
D1003 D1004	8-719-812-41 8-719-812-41	DIODE TLR124 DIODE TLR124					C234	1-102-114-00	CERAMIC	470PF	10%	50V
D1005	8-719-812-41	DIODE TLR124					C236 C237	1-124-902-00 1-124-902-00	ELECT ELECT	0.47MF 0.47MF	20% 20%	50V 50V
	<1C>						C238 C239	1-102-978-00 1-126-103-11	CERAMIC ELECT	220PF 470MF	5% 20%	50 <b>V</b> 16 <b>V</b>
IC1001	8-749-900-36	IC BX-1393					C240 C1401	1-130-481-00 1-123-875-11	MYLAR Elect	0.0068MF 10MF	101 201	50V 50V
	<swi< td=""><td>TCH&gt;</td><td></td><td></td><td></td><td></td><td>C1402 C1403</td><td>1-126-103-11 1-102-114-00</td><td>ELECT CERAMIC</td><td>470MF 470PF</td><td>202 102</td><td>16V 50V</td></swi<>	TCH>					C1402 C1403	1-126-103-11 1-102-114-00	ELECT CERAMIC	470MF 470PF	202 102	16V 50V
\$1001 \$1002	1-554-937-11 1-554-937-11	SWITCH, KEY E	BOARD					1-124-902-00	ELECT	0.47MF	20%	50V
\$1003 \$1004	1-554-937-11 1-554-937-11 1-554-937-11	SWITCH, KEY E SWITCH, KEY E	SOARD SOARD				C1405 C1406 C1407 C1408	1-101-003-00 1-124-902-00 1-123-875-11 1-126-101-11	CERAMIC ELECT ELECT ELECT	0.0047MF 0.47MF 10MF 100MF	202 202 202	50V 50V 50V 16V
	********			****	******	*******	C1409	1-126-233-11	ELECT	22MF	20%	50V
	*1-627-736-11	J2 BOARD					C1413 C1414 C1415	1-124-477-11 1-124-477-11 1-123-875-11 1-124-902-00	ELECT ELECT ELECT	47MF 47MF 10MF 0.47MF	20% 20% 20% 20%	16V 16V 50V 50V
	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td>1-124-902-00 1-124-477-11</td><td>ELECT</td><td>0.47MF 47MF</td><td>20% 20%</td><td>50V 16V</td></con<>	NECTOR>						1-124-902-00 1-124-477-11	ELECT	0.47MF 47MF	20% 20%	50V 16V
CNJ23	*1-564-523-11 <jac< td=""><td></td><td>OR 8P</td><td></td><td></td><td></td><td>C1418 C1419 C1421</td><td>1-124-477-11 1-102-114-00 1-102-114-00 1-124-477-11 1-136-157-00</td><td>CERAMIC CERAMIC ELECT</td><td>47MF 470PF 470PF 47MF 0.022MF</td><td>107 107 207 107</td><td>50V 50V 16V 50V</td></jac<>		OR 8P				C1418 C1419 C1421	1-124-477-11 1-102-114-00 1-102-114-00 1-124-477-11 1-136-157-00	CERAMIC CERAMIC ELECT	47MF 470PF 470PF 47MF 0.022MF	107 107 207 107	50V 50V 16V 50V

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REF. NO	. PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
C1424 C1425 C1426 C1427 C1428	1-124-902-00 1-101-003-00	ELECT ELECT	0.022MF 0.47MF 0.47MF 0.0047MF 0.0047MF	10% 20% 20%	50V 50V 50V 50V 50V	R207 R208 R209 R210 R211	1-249-423-11 1-249-431-11 1-249-433-11 1-249-431-11 1-249-441-11	CARBON CARBON CARBON	3.3K 15K 22K 15K 100K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
C1429 C1430 C1431 C1432 C1433	1-102-114-00 1-124-902-00 1-124-902-00	CERAMIC ELECT	0.0047MF 470PF 0.47MF 0.47MF 100MF	10% 10% 20% 20% 20%	50V 50V 50V 50V 16V	R212 R213 R214 R215 R216	1-249-433-11 1-249-431-11 1-249-409-11 1-249-433-11 1-249-433-11	CARBON CARBON CARBON	22K 15K 220 22K 22K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
C1450	1-123-875-11	ELECT	10MF	20%	50V	R217 R218 R219	1-249-431-11 1-249-409-11 1-249-429-11	CARBON	15K 220 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
CNIO	<con< td=""><td>INECTOR&gt;</td><td></td><td></td><td></td><td>R220 R221</td><td>1-249-425-11 1-249-417-11</td><td>CARBON</td><td>4.7K 1K</td><td>5% 5%</td><td>1/4W 1/4W</td><td></td></con<>	INECTOR>				R220 R221	1-249-425-11 1-249-417-11	CARBON	4.7K 1K	5% 5%	1/4W 1/4W	
CNJU1 CNJU2 CNJU3 CNJU4 CNJ21	1-126-101-11 1-123-875-11	SUCKET 21P SOCKET 21P CONNECTOR, H TERMINAL BOAL CONNECTOR, H	INGE (TAB) 1 RD, INPUT/OU INGE (TAB) 1	8P TPUT 8P		R222 R223 R224 R225	1-249-417-11 1-249-413-11 1-249-413-11 1-249-393-11 1-249-413-11	CARBON CARBON CARBON	1K 470 470 10	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	F
CNJ22	*1-564-517-11	PLUG, CONNEC	TOR 2P			R227	1-249-415-11		470 1K		1/4W 1/4W	
D201	<dio< td=""><td>DE&gt;</td><td>S-R3</td><td></td><td></td><td>R228 R229 R231</td><td>1-249-417-11 1-249-437-11 1-249-409-11 1-249-409-11</td><td>CARBON CARBON CARBON</td><td>1K 47K 220 220</td><td>5% 5% 5% 5%</td><td>1/4W 1/4W 1/4W</td><td></td></dio<>	DE>	S-R3			R228 R229 R231	1-249-417-11 1-249-437-11 1-249-409-11 1-249-409-11	CARBON CARBON CARBON	1K 47K 220 220	5% 5% 5% 5%	1/4W 1/4W 1/4W	
D202 D1401 D1403 D1404	8-719-110-14 8-719-110-04 8-719-110-04 8-719-110-04	DIODE RD9.1ES DIODE RD7.5ES DIODE RD7.5ES DIODE RD7.5ES	S-B3 S-B3 S-B3 S-B3			R1401 R1402 R1403 R1404	1-247-804-11 1-247-804-11 1-249-437-11 1-249-413-11	CARBON CARBON CARBON	75 75 47K 470	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
D1405 D1406 D1407 D1408	8-719-110-04 8-719-110-04 8-719-110-04 8-719-110-14	DIODE RD7.5ES DIODE RD7.5ES DIODE RD7.5ES DIODE RD9.1ES	S-B3 S-B3 S-B3 S-B3			R1405 R1406 R1407	1-249-429-11 1-249-427-11 1-247-895-00	CARBON CARBON	10K 6.8K 470K		1/4W 1/4W 1/4W 1/4W	
D1409	8-719-110-04 8-719-110-04	DIODE RD7.5ES	5-B3 -B3			R1408 R1409	1-249-434-11 1-249-413-11	CARBON CARBON	27K 470	5% 5% 5% 5%	1/4W 1/4W	
D1419 D1421 D1422 D1423	8-719-110-04 8-719-110-04 8-719-110-04 8-719-110-04	DIODE RD7.5ES DIODE RD7.5ES DIODE RD7.5ES DIODE RD7.5ES	5-B3 5-B3 5-B3 5-B3			R1411 R1411 R1412	1-249-434-11 1-249-413-11 1-249-437-11 1-247-895-00	CARBON	27K 470 47K	5%	1/4W 1/4W 1/4W	
D1425	8-719-110-04	DIODE RD7.5ES	5-B3			R1414 R1415	1-249-437-11 1-249-434-11	CARBON	470K 47K 27K	5% 5% 5% 5%	1/4W 1/4W 1/4W	
	<1C>					R1416 R1417	1-249-434-11 1-247-804-11	CARBON	27K 75	5% 5%	1/4W 1/4W	
IC201 IC1401 IC1402	<1C> 8-759-013-17 8-752-032-27 8-759-946-32	IC TDA6200 IC CXA1114P IC TEA2014A			5	R1419	1-249-409-11	GADDOM	82 220 220	5%		F
	<011	i)				R1422		CARBON CARBON	220 220	5% 5% 5%	1/4W 1/4W	
L1401 L1402	1-459-407-00 1-459-407-00	COIL. FERRITE	CHOKE CHOKE			R1424 R1425	1-249-434-11 1-249-434-11 1-249-409-11	CARBON CARBON CARBON	27K 27K 220	5%	1/4W 1/4W 1/4W	
	<tram< td=""><td>VSISTOR&gt;</td><td></td><td></td><td>İ</td><td>R1427</td><td>1-249-416-11 1-249-416-11 1-247-895-00</td><td>CARBON CARBON CARBON</td><td>820 820 470K</td><td>5% 5%</td><td>1/4W 1/4W 1/4W</td><td></td></tram<>	VSISTOR>			İ	R1427	1-249-416-11 1-249-416-11 1-247-895-00	CARBON CARBON CARBON	820 820 470K	5% 5%	1/4W 1/4W 1/4W	
Q201 Q202	8-729-117-54 8-729-117-54	TRANSISTOR 2S	A1175		į	R1429	1-247-895-00	CARBON CARBON	470K 75	5% 5% 5%	1/4W 1/4W 1/4W	
Q1401 Q1402	8-729-117-54	TRANSISTOR 2S TRANSISTOR 2S	A1175 A1175			R1434 R1437	1-249-429-11	CARBON CARBON CARBON	100 10 10K	5% 5% 5% 5%	1/4W 1/4W # 1/4W	ì
	<res1< td=""><td>STOR&gt;</td><td></td><td></td><td>1</td><td>R1440</td><td>1-249-427-11 1-249-417-11</td><td>CARBON CARBON</td><td>1K</td><td>5%</td><td>1/4W 1/4W</td><td></td></res1<>	STOR>			1	R1440	1-249-427-11 1-249-417-11	CARBON CARBON	1K	5%	1/4W 1/4W	
R202 R204 R205		CARBON CARBON CARBON	47K 5% 4.7K 5% 33K 5% 33K 5% 3.3K 5%	1/4W 1/4W 1/4W 1/4W 1/4W		R1443 R1445	1-249-437-11	CARBON CARBON CARBON CARBON	82K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	

The components identified by shading and mark  $ilde{\Lambda}$  are critical for safety.
Replace only with part number specified.

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REF.NO. PAR	T NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R1448 1-2 R1449 1-2 R1450 1-2 R1451 1-2 R1455 1-2	47-804-11 47-804-11 47-804-11	CARBON CARBON CARBON	220 5 75 5 75 5 75 5 75 5	7 1/4W 7 1/4W 7 1/4W 7 1/4W 7 1/4W		10601	<mod 1-236-237-11 <coi< td=""><td>PQWER MODULE (DM-38)</td><td></td><td></td></coi<></mod 	PQWER MODULE (DM-38)		
R1456 1-2 R1457 1-2	49-409-11	CARBON CARBON	220 5 220 5	% 1/4W % 1/4W		L603	1-408-300-00	INDUCTOR MICRO 6.8UH		
R1459 1-2		CARBON ************************************	470 5	% 1/4W		L604 L605	1-421-329-00 1-410-397-21 1-407-365-00	FERRITE BEAD INDUCTOR	1.1UH	
1-4	13-380-11	G BOARD (ZD-1				L607	1-410-397-21	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR		
		ACITOR>				L610 L613 L615 L616	1-410-397-21 1-410-397-21 1-459-155-00	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR COIL (WITH CORE) 45UH COIL (WITH CORE) 45UH	1.1UH	
C602 1-1 C603 1-1 C604 1-1	36-618-11 36-618-11 30-325-51	FILM PP FILM	0.047MF 0.047MF 0.15MF	10% 5% 5% 5% 5%	400V 1.25KV 1.25KV 100V	L617 L618	1-459-155-00	COIL (WITH CORE) 45UH COIL (WITH CORE) 45UH		
	30-325-51		0.15MF		100V		<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td></tra<>	NSISTOR>		
C607 1-1 C608 1-1 C609 1-1	64-143-91 64-143-91 64-143-91 64-144-91 64-143-91	CERAMIC CERAMIC CERAMIC	1000PF 1000PF 1000PF 1500PF 1000PF	10% 10% 10% 10% 10%	1 K V 1 K V 1 K V 1 K V 1 K V	Q601 Q602 Q603 Q604	8-729-905-73 8-729-178-54	TRANSISTOR 2SC4056R TRANSISTOR 2SC4056R TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		
C612 1-1	02-038-00 08-843-11	PF TEREPHTHAL	1000PF .ATE 0.03	3MF 10%	500V 50V	 	<res< td=""><td>ISTOR&gt;</td><td></td><td></td></res<>	ISTOR>		
C614 1-1	24-477-11 26-176-11 23-380-00	ELECT	47MF 220MF 1MF	20% 20% 20%	16V 6.3V 50V	R601 R602 R605	1-215-904-11 1-215-904-11 1-207-451-00	METAL OXIDE FILM 100K METAL OXIDE FILM 100K RES, WIRE 10 10	5% 2W	
C618 1-1	24-557-11 24-439-51 24-557-11	ELECT	1000MF 2700MF 1000MF	20% 20% 20%	25V 25V 25V	R606 R607	1-207-451-00 1-216-370-11	RES, WIRE 10 10 METAL OXIDE FILM 1.2	% 1/2W	
C620 1-1	24-568-00 24-347-00	ELECT	4700MF 100MF	20% 20%	10V 160V	R608 R609 R610	1-216-370-11 1-249-405-11 1-249-405-11	METAL OXIDE FILM 1.2 CARBON (SMALL) 100 5% CARBON (SMALL) 100 5%	1/4W	
C623 1-1	08-843-11 62-115-00 24-471-00	PF TEREPHTHAL CERAMIC ELECT	ATE 0.03 330PF 1000MF	3MF 10% 10% 20%	50V 2KV 6.3V	R611 R612	1-249-417-11 1-249-382-11	CARBON 1K 5%	1/4W 1/4W	
	<dio< td=""><td></td><td></td><td>20%</td><td>0.5.</td><td>R613 R614 R615</td><td>1-249-398-11 1-249-405-11 1-216-363-00</td><td>CARBON (SMALL) 27 5% CARBON (SMALL) 100 5% METAL OXIDE FILM 0.33</td><td>1/4W 1/4W 5% 2W</td><td></td></dio<>			20%	0.5.	R613 R614 R615	1-249-398-11 1-249-405-11 1-216-363-00	CARBON (SMALL) 27 5% CARBON (SMALL) 100 5% METAL OXIDE FILM 0.33	1/4W 1/4W 5% 2W	
D601 8-7		DIODE S3V10SS	;			R616	1-216-363-00	METAL OXIDE FILM 0.33 SRES, WIRE 33 10	5% 2W	
D602 8-7 D603 8-7 D605 8-7	19-500-69 19-500-26 19-510-13 19-510-12	DIODE S3V10SS DIODE D5KD20H DIODE D10SC4M DIODE D10SC4M	IR			R618 R619 R620	1-207-451-00 1-249-417-11		1/2W	
	19-300-33					R621		CARBON (SMALL) 100 5%	1/4W	
D608 8-7 D609 8-7	19-300-33 19-500-67	DIODE RU2M DIODE D5KC40H					<tra< td=""><td>NSFORMER&gt;</td><td></td><td></td></tra<>	NSFORMER>		
	19-911-19 19-911-19	DIODE 1SS119 DIODE 1SS119						TRANSFORMER, LINE FILTE		
D613 8-7	19-911-19	DIODE 1SS119 DIODE 1SS119				7603 <u>A</u>	1-424-169-11	TRANSFORMER, POWER REGI TRANSFORMER, POWER INSI	JLATED	
D615 8-7	19-981-00	DIODE 1881-0 DIODE ERB81-0 DIODE UO5G	04			*****		**************************************	********	*******
							****	*******		
G2 *1-50 G3 *1-50	08-765-00 08-767-00 64-507-11	NECTOR> PIN, CONNECTO PIN, CONNECTO PLUG, CONNECT	R (5MM P OR 4P			<b>1805 ∆</b>	.1-230-940-31 .1-238-368-11 .1-439-443-11	REGULATOR, SWITCHING (2 RESISTOR ASSY, HIGH-VOL RESISTOR ASSY, HIGH-VOL TRANSFORMER ASSY, FLYBA NECK ASSY, PICTURE TUBE	TAGE TAGE ICK	
G4 *1−5;	64-506-11	PLUG, CONNECT	UR 3P			<b>A</b>		DEFLECTION YOKE (SY-19) MAGNET, DISK; 10MM ø	B)	

The components identified by shading and mark  $\hat{\Delta}$  are critical for safety.

Replace only with part number specified.

REF. NO. PART NO.

DESCRIPTION

REMARK

1-452-094-00 MAGNET, ROTATABLE DISK; 15MM ø ▲ 1-574-299-11 CORD, POWER (WITH CONNECTOR)

L901 A 1-426-398-11 COIL, DEMAGNETIZATION V901 A 8-733-821-05 PICTURE TUBE (A68JYK10X)

ACCESSORIES AND PACKING MATERIALS

PART NO.

DESCRIPTION

REMARK

A-1470-859-A COMMANDER ASSY (RM-681)
1-574-071-11 CORD (WITH PLUG)
3-786-575-11 MANUAL, INSTRUCTION
\*4-380-432-01 BAG, PROTECTION
\*4-390-743-01 CUSHION (UPPER) (ASSY)
\*4-390-744-01 CUSHION (LOWER) (ASSY)
\*4-390-749-01 INDIVIDUAL CARTON